## REPUBLIC OF RWANDA



## MINISTRY OF EDUCATION P.O BOX 622 KIGALI

## 2018 EDUCATION STATISTICS



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## FOREWORD

The mission of the Ministry of Education is to transform the Rwandan citizens into skilled human capital for the socio-economic development of the country by ensuring equitable access to quality education, focussing on combating illiteracy, promotion of science and technology, critical thinking and positive values. In order to monitor the progress of the quality of education and proportion of pupils and students at various levels of education, and to identify areas that need improvement, the Ministry of Education (MINEDUC) in collaboration with different stakeholders need updated information on education sector.

In this publication, the Ministry of Education presents Education Statistical Yearbook 2018. This document contains a comprehensive set of statistical information for all levels of education: Early Childhood, primary, secondary, TVET, tertiary and adult literacy education.

This publication provides key education figures and indicators at all levels of education, students, staff, school status, school infrastructures and teaching and learning materials such as books, ICT. source of energy, water and sanitation and other social factors that influence education sector in Rwanda, including school feeding program, status of Special Needs and Inclusive Education in schools. Data presented are disaggregated by gender, school status and the disaggregation at district level is provided in the annexes.

New information like data on refugees and Rwanda International Standard classification of Education (ISCED) were included in this publication to comply with the needs of education statistics users, and to facilitate the international comparability of our education system. Needless to say, I am confident that this publication will be useful to all education stakeholders and interested leaders, and will serve the purpose of achieving the already defined national, regional and international goals.

I wish to extend my sincere gratitude to all staff at schools, Sectors, Districts, as well as staff at the Ministry of Education, and its affiliated agencies, to educationists at different levels, to the development partners and to all other stakeholders who, in one way or another have made the publication of this Education Statistical Yearbook possible.

It is worth noting that the feedback, comments on this statistical Yearbook will improve subsequent publications. The Ministry of Education will continue to strive towards making education statistics more accessible, equitable and relevant in future.

## Dr. Eugene MUTIMURA Minister of Education



## TABLE OF CONTENTS

FOREWORD ..... i
TABLE OF CONTENTS ..... ii
LIST OF TABLES ..... iv
LIST OF FIGURES ..... viii
LIST OF MAPS ..... viii
LIST OF ANNEXES ..... ix
ACRONYMS AND ABBREVIATION .....
DATA COLLECTION PROCESS AND METHODOLOGY ..... xi
STRUCTURE OF THE REPORT ..... xi
DEFINITIONS OF KEY EDUCATION INDICATORS ..... xii
EXECUTIVE SUMMARY ..... xv
I GENERAL OVERVIEW .....
2 EARLY CHILDHOOD EDUCATION ..... 3
2.I PRE-NURSERY EDUCATION ..... 4
2.I.I Pre-Nursery infrastructure ..... 4
2.I. 2 Pre-Nursery learners ..... 5
2.I. 3 Care-givers in Pre-Nursery Centres ..... 7
2.I. 4 Water and Sanitation in Pre-Nursery centres ..... 8
2.2 NURSERY EDUCATION ..... 9
2.2.I Nursery school infrastructure ..... 9
2.2.2 Nursery school pupils ..... 12
2.2.3 Nursery school staff ..... 15
2.2.4 Books and Textbooks in Nursery schools ..... 16
2.2.5 Source of energy in Nursery schools ..... 17
2.2.6 Water and sanitation in Nursery schools ..... 17
2.2.7 School feeding program in Nursery schools ..... 19
2.2.8 Special need education in Nursery schools ..... 19
3 PRIMARY EDUCATION ..... 20
3.1 Primary school infrastructure ..... 20
3.2 Primary school pupils ..... 23
3.3 Primary school staff ..... 28
3.4 ICT, science and technology in primary schools ..... 30
3.5 Books and textbooks in primary schools ..... 31
3.6 Source of energy in primary schools ..... 32
3.7 Water and sanitation in primary schools ..... 32
3.8 School feeding program in primary schools ..... 33
3.9 Special need education in primary schools ..... 34
4 SECONDARY EDUCATION ..... 35
4.I Secondary school infrastructure ..... 35
4.2 Secondary school students ..... 38
4.3 Secondary school staff ..... 49
4.4 ICT, science and technology in secondary schools ..... 5I
4.5 Books and textbooks in secondary schools ..... 52
4.6 Source of energy in secondary school ..... 55
4.7 Water and sanitation in secondary schools ..... 55
4.8 School feeding program in secondary schools ..... 56
4.9 Special need education in secondary schools ..... 57
5 TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING ..... 58
5.I TVET Infrastructure ..... 58
5.2 TVET trainees ..... 61
5.3 TVET Staff ..... 67
5.4 Books and textbooks in TVET ..... 68
6 TERTIARY EDUCATION ..... 69
6.I Tertiary institutions ..... 69
6.2 Tertiary institutions number of students ..... 70
6.3 Tertiary staff ..... 79
6.4 Computer in Tertiary Education ..... 81
7 ADULT LITERACY EDUCATION ..... 83
7.1 Adult literacy infrastructure ..... 83
7.2 Adult literacy learners ..... 84
7.3 Adult literacy instructors ..... 87
CONCLUSION AND RECOMMENDATIONS ..... 89
GLOSSARY ..... 91
REFERENCES ..... 92
ANNEXES ..... 93

## LIST OF TABLES

Table I.I: Number of schools, students and staff in 2018 1
Table I.2: Participation rate by different age groups in 2017 and 2018. ..... 2
Table 2.I: Number of ECE Schools /Centres, learners and staff in 2017 and 2018 ..... 3
Table 2.2: Pre-Nursery schools in 2017 and 2018 ..... 4
Table 2.3: Number of Pre-Nursery centres by owner in 2017 and 2018 ..... 4
Table 2.4: Type of services offered in Pre-Nursery Centres in 2017 and 2018 ..... 5
Table 2.5: Number of Pre-Nursery children in 2017 and 2018 ..... 5
Table 2.6: Number of refugees enrolled in Pre-Nursery schools in 2018 ..... 6
Table 2.7: Care-givers in Pre-Nursery centres in 2017 and 2018 ..... 7
Table 2.8: Water in Pre-Nursery centres for 2017 and 2018 ..... 8
Table 2.9: Toilets in Pre-Nursery centres for 2017 and 2018 ..... 8
Table 2.10: Number of Nursery schools, by schools 'status from 2016 to 2018 ..... 9
Table 2.1I: Number of Nursery schools, by settings from 2016 to 2018 ..... 9
Table 2.12: Nursery School attached to a higher level in 2016 to 2018 ..... 10
Table 2.13: Number of Nursery schools, by ownership from 2016 to 2018 ..... 10
Table 2.14: Number of Nursery classrooms, by schools 'status from 2016 to 2018 ..... 10
Table 2.15: Number of Nursery desks, by schools 'status from 2016 to 2018 ..... II
Table 2.16: Nursery pupils enrolled from 2016 to 2018 ..... 12
Table 2.17: Nursery school pupil's enrolment by grade in 2017 and 2018 ..... 13
Table 2.18: Nursery GER and NER from 2016 to 2018 ..... 13
Table 2.19: Number of refugees in Nursery Schools in 2018 ..... 14
Table 2.20: Nursery school staff from 2016 to 2018 ..... 15
Table 2.2I: Number of Nursery school staff in 2018 school year by status ..... 16
Table 2.22: Books in use in Nursery schools by level and subject in 2018 ..... 16
Table 2.23: Source of energy in Nursery schools from 2016 to 2018 ..... 17
Table 2.24: Water in Nursery schools from 2016 to 2018 ..... 17
Table 2.25: Toilets in Nursery schools from 2016 to 2018. ..... 18
Table 2.26: Nursery school feeding program from 2016 to 2018 ..... 19
Table 2.27: Special need education in Nursery from 2016 to 2018. ..... 19
Table 2.28: Nursery school pupils with disability in 2018 ..... 20
Table 2.29: Nursery school pupils with disability in 2017 and 2018 ..... 20
Table 3.I: Number of primary schools from 2016 to 2018 by schools' status ..... 20
Table 3.2: Number of primary schools by settings from 2016 to 2018 ..... 21
Table 3.3: Number of primary schools by owner from 2016 to 2018 ..... 21
Table 3.4: Number of primary classrooms from 2016 to 2018 by schools' status. ..... 22
Table 3.5: Number of primary schools' classes from 2016 to 2018 by schools' status ..... 23
Table 3.6: Number of primary schools' desks from 2016 to 2018 by schools' status ..... 23
Table 3.7: Primary school's pupils from 2016 to 2018 ..... 23
Table 3.8: Primary school pupils enrolled in 2017 and 2018 by grade ..... 24
Table 3.9: Promotion, repetition and dropout rate in primary schools. ..... 24
Table 3.10: Primary promotion, repetition and dropout rate by level in 2017 ..... 25
Table 3.II: Primary GER and NER from 2016 to 2018 ..... 25
Table 3.12: Primary GIR and NIR from 2016 to 2018 ..... 26
Table 3.13: Transition rate from Primary to Lower secondary from 2016 to 2018 ..... 27
Table 3.14: Newly admitted in PI pupils of which attended Nursery in 2017 and 2018 ..... 27
Table 3.15: Number of enrolled refugees in primary education in 2018 ..... 27
Table 3.16: Primary school staff from 2016 to 2018 ..... 28
Table 3.17: Primary school staff from 2016 to 2018 by school's status. ..... 29
Table 3.18: Number of Primary school staff in 2018 by status ..... 29
Table 3.19: ICT, science and technology in primary schools for 2016 and 2018 ..... 30
Table 3.20: Books in use in primary schools by grade and subject in 2018 ..... 31
Table 3.2I: Number of student's CBC textbooks in use in the primary schools in 2018 ..... 31
Table 3.22: Source of energy in Primary schools from 2016 to 2018 ..... 32
Table 3.23: Water in primary schools from 2016 to 2018 ..... 32
Table 3.24: Toilets in primary schools from 2016 to 2018 ..... 33
Table 3.25: School feeding program in primary schools from 2016 to 2018 ..... 33
Table 3.26: Special need education in primary schools from 2016 to 2018 ..... 34
Table 3.27: Primary school pupils with disability in 2018 ..... 34
Table 3.28: Primary school pupils with disability by grades in 2017 and 2018 ..... 35
Table 4.I: Number of secondary schools from 2016 to 2018 by schools' status ..... 35
Table 4.2: Number of secondary schools by settings from 2016 to 2018 ..... 36
Table 4.3: Number of secondary schools by owner from 2016 to 2018. ..... 36
Table 4.4: Number of secondary school classrooms from 2016 to 2018 by schools 'status ..... 37
Table 4.5: Number of secondary school desks from 2016 to 2018 by status ..... 38
Table 4.6: Number of students in secondary schools from 2016 to 2018 ..... 38
Table 4.7: Number of lower secondary students from 2016 to 2018 ..... 39
Table 4.8: Number of upper secondary students from 2016 to 2018 ..... 39
Table 4.9: Upper secondary students enrolled in 2018 by learning areas ..... 40
Table 4.10: STEM students enrolled in upper secondary from 2016 to 2018 ..... 41
Table 4.II: Percentage of STEM students enrolled in upper secondary from 2016 to 2018 ..... 41
Table 4.12: Number of boarding secondary students from 2016 to 2018 ..... 42
Table 4.13: Lower secondary school student's enrolment by grade in 2017 and 2018 ..... 42
Table 4.14: Upper secondary school student's enrolment by grade in 2017 and 2018 ..... 43
Table 4.15: Promotion, repetition and dropout rate in secondary schools ..... 43
Table 4.16: Promotion, repetition and dropout rate in lower secondary schools ..... 44
Table 4.17: Promotion, repetition and dropout rate in upper secondary schools ..... 44
Table 4.18: Secondary promotion, repetition and dropout rate in 2017 by grade. ..... 45
Table 4.19. Secondary GER and NER from 2016 to 2018 ..... 45
Table 4.20: Secondary GIR and NIR from 2016 to 2018 ..... 46
Table 4.2I: Transition rate from lower to upper secondary from 2015 to 2017 ..... 48
Table 4.22: Number of refugees enrolled in general secondary in 2018 ..... 48
Table 4.23: Secondary school staff from 2016 to 2018 ..... 49
Table 4.24: Number of secondary school staff from 2016 to 2018 by school 'status ..... 50
Table 4.25: Number of secondary school staff in 2018 by status ..... 50
Table 4.26: ICT, science and technology in secondary schools ..... 51
Table 4.27: Secondary schools with library from 2016 to 2018 ..... 52
Table 4.28: Books in use by lower secondary students in 2018 ..... 52
Table 4.29: Books in use by students in science combinations in 2018 ..... 53
Table 4.30: Books in use by students in humanities combinations in 2018 ..... 54
Table 4.31: Books in use by students in Languages combinations in 2018 ..... 54
Table 4.32: Books in use by TTC students in 2018 ..... 54
Table 4.33: Source of energy in secondary schools from 2016 to 2018 ..... 55
Table 4.34: Water in secondary schools for 2016, 2017 and 2018. ..... 55
Table 4.35: Toilets in secondary schools from 2016 to 2018 ..... 56
Table 4.36: School feeding program in secondary schools from 2016 to 2018 ..... 56
Table 4.37: Special need education in secondary schools from 2016 to 2018 ..... 57
Table 4.38: Secondary school students with disability in 2018 ..... 57
Table 4.39: Secondary school students with disability enrolled in 2017 and 2018 ..... 58
Table 5.I: Number of TVET schools by level in 2017 and 2018 ..... 58
Table 5.2: Number of TVET schools by Status from 2016 to 2018. ..... 59
Table 5.3: Number of TVET Classrooms for level I to 5 in 2017 and 2018 ..... 59
Table 5.4: Number of TVET desks for level I to 5 in 2017 and 2018 ..... 60
Table 5.5: Total Number of TVET trainees in 2017 and 2018 ..... 61
Table 5.6: Number of refugees enrolled in TVET levell to 5 in 2018 ..... 62
Table 5.7: TVET level I to 7 trainees from 2016 to 2018 ..... 63
Table 5.8: TVET trainee's enrolment by level in 2017 and 2018 ..... 63
Table 5.9: TVET Special Program Trainees by Type of Intervention ..... 64
Table 5.I0: Percentage of students enrolled in TVET level 3 after passing S3 National Exam. ..... 65
Table 5.II: TVET Trainees level I to 7 by Sector in 2018 ..... 65
Table 5.12: TVET graduate from 2015 to 2017. ..... 66
Table 5.13: Number of TVET Trainees with disability enrolled in 2017 and 2018. ..... 66
Table 5.14: Number of trainees enrolled in TVET by type of disability in 2018 ..... 67
Table 5.15: TVET staff from 2016 to 2018 ..... 67
Table 5.16: TVET staff category by school status in 2018 ..... 67
Table 5.17: TVET staff by qualification in 2018 ..... 68
Table 5.18: Books used in TVET level I to 5 by Sector in 2018 ..... 68
Table 6.I: Number of tertiary institutions from 2016 to 2018 ..... 69
Table 6.2: Tertiary Institution students from 2016 to 2018 ..... 70
Table 6.3: Transition rate from secondary to tertiary education ..... 72
Table 6.4: Students enrolled in TVET Higher Learning Institutions from 2016 to 2018 ..... 72
Table 6.5: Students enrolled in Higher Education Institutions ..... 73
Table 6.6: Tertiary institution students enrolled in 2017/I8 by field of education. ..... 74
Table 6.7: Tertiary GER and students per 100,000 inhabitants ..... 75
Table 6.8: Tertiary graduates from 2015 to 2017 ..... 76
Table 6.9: TVET Higher Learning graduates in 2015 to 2017 ..... 76
Table 6.10: Higher Education Graduates from 2015 to 2017 ..... 77
Table 6.1 I: Tertiary graduates by exit award in 2016 and 2017 ..... 77
Table 6.12: Tertiary graduates by fields of education in 2016 and 2017 ..... 78
Table 6.13: Number of students with disability enrolled in tertiary education ..... 78
Table 6.14: Number of tertiary staff. ..... 79
Table 6.15: Number of tertiary academic staff ..... 79
Table 6.16: Number of administrative staff in tertiary institutions ..... 80
Table 6.17: Number of Tertiary staff by level of education in 2017/I8 ..... 81
Table 6.18: Number of computers in Tertiary institution ..... 81
Table 6.19: Number of user per computer in tertiary institutions ..... 82
Table 7.I: Adult Literacy centres from 2016 to 2018 ..... 83
Table 7.2: Number of Adult Literacy Centres, by owner in 2016 and 2018 ..... 83
Table 7.3: Adult Literacy desks from 2016 to 2018 ..... 84
Table 7.4: Adult Literacy learners in 2016 and 2018 ..... 84
Table 7.5: Adult Literacy learners who received their certificate in 2015 to 2017 ..... 86
Table 7.6: Adult literacy instructors from 2016 to 2018. ..... 87
LIST OF FIGURES
Figure I.I: Percentage of Students Enrolment by Level in 2018 .....
Figure I.2: Comparison of enrolled and not enrolled population by age group in 2018 ..... 3
Figure 2.1: Proportion of Pre-Nursery learners by centre's status in 2018 ..... 6
Figure 2.2: Refugees in ECD in 2018 June by camp (as of June 2018) ..... 7
Figure 2.4: Proportion of Nursery pupils by school's status in 2018 ..... 13
Figure 2.5: Distribution of Nursery pupils by age and sex in 2018 ..... 14
Figure 3.I: Proportion of primary pupils by school's status in 2018 ..... 24
Figure 3.2: Distribution of Primary pupils by age and sex in 2018 ..... 26
Figure 4.I: Distribution of secondary students by age and sex in 2018 ..... 47
Figure 5.I: Distribution of TVET trainees by age and sex in 2018 ..... 62
Figure 5.2: Proportion of TVET trainees by school's status in 2018 ..... 63
Figure 6.I: Proportion of Tertiary students by institutions's status in 2017/18 ..... 71
Figure 6.2: Distribution of tertiary students by age and sex in 2018 ..... 75
Figure 7.I: Proportion of adult literacy learners by center's status in 2018 ..... 85
Figure 7.2: Distribution of learners in adult literacy centers by age and sex in 2018 ..... 85
Figure 7.3: Comparison of enrolled learners and those graduated ..... 86
Figure 7.4: Percentage of graduate compare to the enrolment. ..... 87
LIST OF MAPS
Map 2.I: Average Pupils per classroom in Nursery ..... II
Map 3.I: Average Pupils per classroom in primary ..... 22
Map 4.I: Average pupils per classrooms in secondary schools ..... 37
Map 5.I: Trainees per classroom in TVET level I to 5 ..... 60
Map 6.I: Number of Tertiary campuses by district ..... 71
Map 7.I: Learners per instructor in adult literacy ..... 88

## LIST OF ANNEXES

Annex I: Participation rate by single age and sex in 2017 and 2018 ..... 93
Annex 2: Pre-Nursery centres by district in 2017 and 2018 ..... 94
Annex 3: Pre-Nursery Children by district in 2017 and 2018 ..... 95
Annex 4: Pre-Nursery caregivers by district in 2017 and 2018 ..... 96
Annex 5: Nursery schools by district from 2016 to 2018 ..... 97
Annex 6: Nursery Classrooms by district from 2016 to 2018 ..... 98
Annex 7: Nursery pupils by district in 2017 and 2018 ..... 99
Annex 8: Nursery staff by district in 2017 and 2018 ..... 100
Annex 9: Primary schools by District from 2016 to 2018 ..... 101
Annex IO: Primary classrooms by District from 2016 to 2018 ..... 102
Annex II: Primary pupils' enrolment by District in 2017 and 2018 ..... 103
Annex I2: Primary Staff by District in 2017 and 2018 ..... 104
Annex 13: Secondary schools by District from 2016 to 2018 ..... 105
Annex 14: Secondary classrooms by District from 2016 to 2018 ..... 106
Annex 15: Secondary students' enrolment by District in 2017 and 2018 ..... 107
Annex I6: Secondary Staff by District in 2016 and 2018 ..... 108
Annex 17: TVET level I to 5 centres and classrooms by District in 2018 ..... 109
Annex I8: TVET level I to 5 students by District in 2018 ..... 110
Annex 19: TVET level I to 5 staff by District in 2018 ..... III
Annex 20: Number of tertiary students and campuses per districts in 2017/18 ..... 112
Annex 21: Public and private tertiary enrolment in 2017-2018 by field of education ..... 113
Annex 22: Public and private tertiary graduates in 2016/17 by field of education ..... 114
Annex 23: Staff in tertiary institutions in the academic year 2017/18 ..... II5
Annex 24: Adult literacy centres by District from 2016 to 2018 ..... 116
Annex 25: Adult literacy learners by District in 2017 and 2018 ..... 117
Annex 26: Adult literacy instructors by District and Province in 2017 and 2018 ..... 118
Annex 27: ISCED Mapping for Rwanda ..... 119

## ACRONYMS AND ABBREVIATION

| AU | African Union |
| :--- | :--- |
| CBC | Competence Based Curriculum |
| EAC | East African Community |
| ECE | Early Childhood Education |
| ECED | Early Childhood Educational Development |
| EICV | Enquête Intégrale sur les Conditions de Vie des Ménages (Household Living |
| ESSP | Education Sector Strategic Plan |
| HEC | Higher Education Council |
| ICT | Information and Communication Technology |
| ISCED | International Standard Classification of Education |
| MIGEPROF | Ministry of Gender and Family Promotion |
| MINEDUC | Ministry of Education |
| NEP | National Employment Program |
| NISR | National Institute of Statistics of Rwanda |
| NST | National Strategy for Transformation |
| REB | Rwanda Education Board |
| RP | Rwanda Polytechnics |
| RPHC | Rwanda Population Housing Census |
| SET | Science Elementary and Technology |
| SDG | Sustainable Development Goals |
| SMEs | Small Medium Enterprises |
| STEM | Science Technology Engineering and Mathematics |
| TIs | Tertiary Institutions |
| TTCs | Teacher Training colleges |
| TVET | Technical and Vocational Education and Training |
| UR | University of Rwanda |
| WDA | Workforce Development Authority |

## DATA COLLECTION PROCESS AND METHODOLOGY

Education data is collected through annual data collection exercise using questionnaires specifically designed for that purpose. All data are collected via decentralized channels (districts, sectors and schools). However, data on tertiary education sector is collected directly from tertiary institutions, data on National Employment Program (NEP) was collected from the NEP department in Rwanda Polytechnics (RP).

Indicators calculated using data on population is based on Rwandan population projection as published by the National Institute of Statistics of Rwanda (NISR).

All activities related to the elaboration of this statistical yearbook: review of data collection tools, data collection, data entry, analysis, report writing, and proofreading were performed through joint coordination of Ministry of Education with its aligned agencies: REB, WDA, Higher Education Council (HEC), University of Rwanda (UR), Rwanda Polytechnics (RP) and decentralized entities (District and Sector). Ministry of Gender and Family promotion (MIGEPROF) and National Early Childhood Development Program (NECDP) also participated in the review and updates of data collection tools focusing on Early Childhood Education (ECE).

In 2018, eight data collection tools were used based on different levels of education: Pre-Nursery, Nursery, Primary, General secondary (including TTC), TVET (levell to 5), TVET short courses, Tertiary and Adulty literacy.

Education data collection was carried out between June-July 2018. Data was collected from 12974 institutions engaged in providing education at all levels ( 96 pre-nurseries, 3,2I0 Nursery schools, 2,909 primary schools, I,400 general secondary schools, 16 TTCs, 322 TVET centres, 30 Higher Education Institutions and 4,99I literacy centres).

## STRUCTURE OF THE REPORT

The report gives a set of statistical information grouped by education levels: Early Childhood Education, Primary, Secondary, TVET, Tertiary and Adult literacy. It provides key education figures and indicators for school infrastructure, students, staff, ICT, Science and Technology, books, sources of energy, water and sanitation, school feeding and special needs in education

## DEFINITIONS OF KEY EDUCATION INDICATORS

The following formulas are extracted from UNESCO's Education Indicators Technical Guidelines (2009)' and the Metadata for the global and thematic indicators for the follow-up and review of SDG 4 and Education $2030^{2}$.

## I. Participation rate

The number of people in selected age groups participating in formal or non-formal education or training expressed as a percentage of the population of the same age.
$\mathrm{PR}=\frac{\text { Enrolment of the population in age group in formal and nonformal education in year } \mathrm{t}}{\text { Population of the same age in year } \mathrm{t}} \times 100$

## 2. Gross Enrolment Rate (GER)

Total number of students enrolled in a specific level of education, regardless of age, expressed as a percentage of the official school-age population corresponding to the same level of education in a given school-year.

GER $=\frac{\text { Number of pupils at a given level in year } \mathrm{t}}{\text { Population of school age in year } \mathrm{t}} \times 100$

## 3. Net Enrolment Rate (NER)

Enrolment of the official age-group for a given cycle of education expressed as a percentage of the corresponding population.


## 4. Gross Intake Rate (GIR)

Total number of new entrants in the first/or last grade of a given cycle, regardless of age, expressed as a percentage of the population at the official school-age of being at that level.

$$
\mathrm{GIR}=\frac{\text { Enrolment of new entrants in the First or last grade of a given cycle in year } \mathrm{t}}{\text { Population of the official age to attend this level in year } \mathrm{t}} \times 100
$$

## 5. Net Intake Rate (NIR)

The total number of new entrants in the first /or Last grade of given cycle who are of the official primary school-entrance age, expressed as a percentage of the population of the same age.


[^0]
## 6. Transition Rate (TR)

The number of new entrants in a given level of education as a percentage of the pupils who were enrolled in the previous level of education in the previous year. Only new pupils entering the next level of education are given consideration; repeaters at this level are eliminated.
$\mathrm{TR}^{\mathrm{t}-1}=\frac{\text { Number of new pupils enrolled in } \mathrm{G}+\mathrm{l} \text { in year } \mathrm{t}}{\text { Number of total pupils who were enrolled in } G \text { in year } \mathrm{t}-\mathrm{I}} \times 100$

## 7. Promotion Rate (PR)

The number of pupils entering a given level of education as a percentage of the pupils who were enrolled in the previous year at previous level. It shows the percentage of pupils promoted to the next grade in the following school year.
$P R^{t-1}=\frac{\text { Number of pupils promoted to } G+I \text { in year } t}{\text { Number of total pupils who were enrolled in } G \text { in year } t-1} \times 100$

## 8. Repetition Rate (RR)

The proportion of pupils enrolled in a given grade and a given school year who study in the same grade the following school year.
$R^{t-1}=\frac{\text { Number of pupils repeating in } G \text { in year } t}{\text { Number of total pupils who were enrolled in } G \text { in year } t-1} \times 100$

## 9. Drop-out Rate (DR)

Proportion of pupils from a cohort enrolled in a given grade at a given school year who are no longer enrolled in the following school year. Dropout rate can also be obtained by subtracting the sum of promotion rate and repetition rate from 100 in a given school year.
$R R^{t-1}=\frac{\text { Number of pupils who are no longer enrolled in } G \text { or } G+I \text { in year } t}{\text { Number of total pupils who were enrolled in } G \text { in year } t-I} \times 100$

## IO. Pupil-Teacher Ratio (PTR)

The average number of pupils per teacher at a specific level of education in a given school year.
PTR $=\frac{\text { Total number of pupils in a level of education in year } t}{\text { Total number of teachers in that level of education in year } t}$

## I I. Pupil Qualified Teacher Ratio (PQTR)

The average number of pupils per qualified teacher at a specific level of education in a given school year. Qualified teacher refers to a teacher who has the minimum academic qualifications necessary to teach at a specific level of education.
$\operatorname{PQTR}=\frac{\text { Total number of pupils in a level of education in year } \mathrm{t}}{\text { Total number of qualified teachers in that level of education in year } \mathrm{t}}$

## 12. Pupil Trained Teacher Ratio (PTTR)

The average number of pupils per qualified teacher at a specific level of education in a given school year. Trained teacher refers to a teacher who has fulfilled at least the minimum organized teacher-training requirements (pre-service or in-service) to teach at a specific level of education. In the other words is a qualified teacher with a qualification in pedagogical skills.

PTTR $=\frac{\text { Total number of pupils in a level of education in year } t}{\text { Total number of trained teachers in that level of education in year } t}$

## I3. Pupil Classroom Ratio (PCR)

Average number of pupils per classroom at a specific level of education in a given school year.
$P C R=\frac{\text { Total number of pupils in a level of education in year } t}{\text { Total number of classrooms in that level of education in year } t}$

## 14. Number of students in tertiary education per 100,000 inhabitants $\left(\mathbf{S}^{\mathbf{t}}{ }^{100,000}\right.$ )

Number of students enrolled in tertiary education in a given academic-year per 100,000 inhabitants. This indicator shows the general level of participation in tertiary education by indicating the proportion (or density) of students within a country's population.
$S_{100000}^{\mathrm{t}}=\frac{\text { Total number of students enrolled in tertiary education in year } \mathrm{t}}{\text { Country's population in year } \mathrm{t}} \times 100000$

## EXECUTIVE SUMMARY

The total number of learners registered in the Rwandan education system in 2018 was $3,626,362$ with 94,699 staff and 13,012 schools. The participation rate of learners aged between 4-6 years (Nursery age group), 7-I2 years (primary age group), I3-18 years (secondary age group) and 1923 years (tertiary age group) respectively stands at $31.8 \%, 98.6 \%, 72.4 \%$ and $9.8 \%$. This shows that special attention should be taken to increase the participation of population aged between $4-6$ years and 19-23 years. As mentioned above, the 2018 is the second time that the Ministry of Education collects data on pre-nursery. In 2018,6,49I children were registered with 262 staff in 96 centres. Only 24 districts have at least a pre-nursery centre as of 2018 compared to 15 centres recorded in 2017.

Nursery schools, students and staff respectively increased from 3,186 in 2017 to 3,210 in 2018; from 220,435 in 2017 to 226,706 in 2018; from 6,812 in 2017 to 7,178 in 2018. Even though Gross and Net Enrolment Rate increased respectively from 24.1\% (in 2017) to 24.4\% in 2018 and 20.6\% (in 2017) to $20.8 \%$ in 2018, the rates are still very low compared to the Sustainable Development Goals (SDG) target of $100 \%$ by 2030.

Primary schools increased from 2,877 in 2017 to 2,909 in 2018 , students decreased from $2,540,374$ in 2017 to $2,503,705$ in 2018 and staff increased from 43,906 in 2017 to 44,544 in 2018. Primary Gross Enrolment Rate (GER) decreased (I37.5\%) comparatively to (I39.1\% in 20I7), repetition is also decreased from ( $16.4 \%$ in $2016 / 2017$ ) to ( $13.4 \%$ in $2017 / 2018$ ) and drop-out rates $(5.6 \%$ in $2016 / 2017)$ to $(6.7 \%$ in $2017 / 2018)$ continue to remain a big challenge. Government of Rwanda is aware of this challenge, and solving these issues is one of the priorities going forward. High GER is a result of pupils who start studying late, and often at a relatively older age or multiple repetitions of pupils in a class, and this consequently affects the Net Enrolment Rate of secondary (which is still low) because students in the secondary school age group are still attending primary. The transition rate from Primary to lower Secondary decreased from 74.5\% in 2016/2017 to $71.6 \%$ in 2017/2018

Secondary schools increased from 1,567 in 2017 to 1,728 in 2018, students increased from 592,501 in 2017 to 652,944 in 2018 and staff increased from 28,389 in 2017 to 30,040 in 2018. Secondary school GER increased from $38.8 \%$ in 2017 to $39.3 \%$ in 2018 , while NER decreased from $34.1 \%$ in 2017 to $29.8 \%$ in 2018 . The transition rate from lower to upper Secondary slightly increased from $85.1 \%$ in 2017 to $85.4 \%$ in 2018.

The number of TVET schools decreased from 402 to 360 , where in 2018 private schools represents $60.8 \%$. Trainees decreased from 107,501 in 2017 to 102,485 in 2018, and the number of staff decreased from 6,929 in 2017 to 6,607 in 2018. It is the second time that NEP statistics are published in the Education Statistical Yearbook. The number of NEP beneficiaries decreased by $46 \%$, from 17,846 in 2016-2017 to 9,650 beneficiaries in 2017/20I8.

The number of tertiary institutions decreased from 54 in 2016/2017 to 40 in 2017/2018, students also decreased from 91,193 in $2016 / 2017$ to 89,160 in $2017 / 2018$, the number of students in public tertiary institutions slightly decreased from 38,595 in 2016/2017 to 38,338 in 2017/2018. While the number of students from private tertiary education was 52,589 in 2016/2017 to 50,822 in 2017/2018. This shows that higher education in Rwanda is changing its nature towards being led by the private sector.

In adult literacy, the number of centres, learners, and instructors respectively decreased from 5,160 in 2017 to 4,99 I in 2018, from 152,015 in 2017 to 132,365 in 2018, and 6,287 in 2017 to 6,072 in 2018.

The Government of Rwanda through the Ministry of Education strives to improve access and quality education, specifically in basic education, which will contribute to improve the quality and youth literacy rate from $86.5 \%$ (EICV5) to $93.2 \%$ (ESSP target by 2024) for 15 -24-year-old students, that is fundamental for national development.

## I GENERAL OVERVIEW

Table I.I: Number of schools, students and staff in 2018

| Levels | Schools/ centres | Students |  |  | Staff |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Male | Female | Total | Male | Female | Total |
| Pre-Nursery | 96 | 3,199 | 3,292 | 6,491 | 47 | 215 | 262 |
| Nursery | 3,210 | 112,044 | 114,662 | 226,706 | 1,457 | 5,721 | 7,178 |
| Primary | 2,909 | 1,259,344 | 1,244,361 | 2,503,705 | 20,539 | 24,005 | 44,544 |
| General Secondary | 1,416 | 264,782 | 314,115 | 578,897 | 17,143 | 8,000 | 25,143 |
| TVET | 360 | 57,643 | 44,842 | 102,485 | 4,856 | I,751 | 6,607 |
| General Tertiary | 30 | 41,458 | 34,255 | 75,713 | 3,586 | 1,307 | 4,893 |
| Adult literacy | 4,991 | 51,220 | 81,145 | 132,365 | 3,822 | 2,250 | 6,072 |
| Total | 13,012 | 1,789,690 | 1,836,672 | 3,626,362 | 51,450 | 43,249 | 94,699 |

The population of Rwanda in 2018 is estimated at 12, 089,720. As shown in Table I.I here above, the human resources ( $\mathbf{3 , 7 2 1 , 0 6 I}$ in total- composed of $\mathbf{3 , 6 2 6 , 3 6 2}$ students and 94,699 staff) in education sector represent $30.8 \%$ of the whole population. This demonstrates how the education sector plays a critical role in the development of every nation.

Figure I.I below illustrates the distribution of the learning population within different education levels in 20I7. The majority of the learning population are enrolled in primary level (69.1\%).

Figure I.I: Percentage of Students Enrolment by Level in 2018


Table 1.2: Participation rate by different age groups in 2017 and 2018

| Age group | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: |
| 4-6 age group | $\mathbf{2 9 . 9 \%}$ | $\mathbf{3 I . 8 \%}$ |
| Male | $29.4 \%$ | $31.2 \%$ |
| Female | $30.5 \%$ | $32.4 \%$ |
| $\mathbf{6}$ years | $\mathbf{4 7 . 1 \%}$ | $\mathbf{5 2 . 6 \%}$ |
| Male | $46.8 \%$ | $52.0 \%$ |
| Female | $47.4 \%$ | $53.1 \%$ |
| 7-12 age group | $\mathbf{9 8 . 7 \%}$ | $\mathbf{9 8 . 6 \%}$ |
| Male | $98.7 \%$ | $98.7 \%$ |
| Female | $98.8 \%$ | $98.5 \%$ |
| I3-18 age group | $\mathbf{7 2 . 1 \%}$ | $72.4 \%$ |
| Male | $71.0 \%$ | $71.5 \%$ |
| Female | $73.2 \%$ | $73.2 \%$ |
| 7-18 age group | $\mathbf{8 6 . 3 \%}$ | $\mathbf{8 6 . 1 \%}$ |
| Male | $85.8 \%$ | $85.8 \%$ |
| Female | $86.8 \%$ | $86.4 \%$ |
| I5-24 age group | $\mathbf{4 2 . 7 \%}$ | $\mathbf{3 2 . 3 \%}$ |
| Male | $42.8 \%$ | $32.6 \%$ |
| Female | $42.6 \%$ | $32.0 \%$ |
| I9-23 age group | $\mathbf{1 6 . 6 \%}$ | $\mathbf{9 . 8 \%}$ |
| Male | $18.0 \%$ | $10.8 \%$ |
| Female | $15.2 \%$ | $8.9 \%$ |
| 4-23 age group | $\mathbf{6 2 . 5 \%}$ | $\mathbf{6 I . 3 \%}$ |
| Male | $62.5 \%$ | $61.3 \%$ |
| Female | $62.6 \%$ | $61.3 \%$ |
|  |  |  |

The participation rate compares the number of students enrolled in formal and informal education institutions (regardless within that sub- of the levels of education sector) with the total number of populations in the same age. Table 1.2 shows that the highest participation rate of $98.6 \%$ is observed in population aged between 7 and 12 years (official school age for primary education) while the lowest participation rate $9.8 \%$ is observed in population aged between 19 and 23 years (official school age for tertiary education).

The participation rate for the population aged between 4 and 6 years (official school age for Nursery education) increased from $29.9 \%$ in 2017 to $31.8 \%$ in 20I8. Details on participation rate by single age are provided in Annex I.

Figure 1.2 below highlight the participation rate focusing on enrolled and not enrolled population by age group. Almost all population aged between 7-12 years are in the school. The percentage of population not enrolled in any level of education is estimate at $13.6 \%$ and $44.1 \%$ respectively for those aged between I3-I5 and 16-18. 68.2\% of population aged between 4-6 are not enrolled while more than $85 \%$ of population aged 19-24 are not enrolled.

Figure 1.2: Comparison of enrolled and not enrolled population by age group in 2018


## 2 EARLY CHILDHOOD EDUCATION

There are two categories of Early Childhood Education (ECE): Early Childhood Educational Development (ECED) or pre-Nursery (in the age range of 0 to 3 years) which is under the Ministry of Gender and Family Promotion (MIGEPROF) and Nursery education or Nursery (for children age between 4 to 6 years) which is under Ministry of Education (MINEDUC).

Table 2.I: Number of ECE Schools /Centres, learners and staff in 2017 and 2018

| Level | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: |
| Schools/ Centres | $\mathbf{3 , 2 7 6}$ | $\mathbf{3 , 3 0 6}$ |
| Pre-Nursery | 90 | 96 |
| Nursery | 3,186 | 3,210 |
| Learners | $\mathbf{2 2 5 , 6 6 9}$ | $\mathbf{2 3 3 , 1 9 7}$ |
| Pre-Nursery | 5,234 | 6,491 |
| Nursery | 220,435 | 226,706 |
| Staff | $\mathbf{7 , 0 5 5}$ | $\mathbf{7 , 4 4 0}$ |
| Pre-Nursery | 243 | 262 |
| Nursery | 6,812 | 7,178 |

There were 3,276 ECE schools with 96 pre-Nursery school and 3,210 Nursery schools in 2018 . The number of learners enrolled in ECE is 233,197 and 7,440 staff are dedicated to this level.

## 2.I PRE-NURSERY EDUCATION

This paragraph highlight trend in pre-Nursery centers, theoretical age for this level is between I and 3 years. For international comparability, this level is equivalent International Standards Classification for Education level 01 (ISCED 0I).

### 2.1.I Pre-Nursery infrastructure

Table 2.2: Pre-Nursery schools in 2017 and 2018

| Description/Year | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: |
| Total number of Pre-nurseries | $\mathbf{9 0}$ | $\mathbf{9 6}$ |
| Number of Public Centres | 22 | 23 |
| Number of Private Centres | 68 | 73 |
| Percentage of public centres | $24.4 \%$ | $24.0 \%$ |
| Percentage of private centres | $75.6 \%$ | $76.0 \%$ |

They were 96 Pre-Nursery centres in 2018. Private centres represent $76.0 \%$ while public centres represent $24.0 \%$. The Annex 2 illustrates that pre- Nursery centres are located in only 24 districts.

Table 2.3: Number of Pre-Nursery centres by owner in 2017 and 2018

| Centre by Owner/year | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: |
| Total Number | $\mathbf{9 0}$ | $\mathbf{9 6}$ |
| Government | 22 | 23 |
| Catholic | 5 | 5 |
| Protestant | I | I |
| Adventist | 0 | I |
| Islamic | 0 | 2 |
| Parents' associations | 36 | 38 |
| Individuals/NGOs | $\mathbf{1 0 0 \%}$ | $\mathbf{2 6}$ |
| Percentage | $24.4 \%$ | $\mathbf{1 0 0 \%}$ |
| Government | $5.6 \%$ | $5.0 \%$ |
| Catholic | $1.1 \%$ | $1.0 \%$ |
| Protestant | $0.0 \%$ | $1.0 \%$ |
| Adventist | $0.0 \%$ | $2.1 \%$ |
| Islamic | $40.0 \%$ | $39.6 \%$ |
| Parents' associations | $28.9 \%$ | $27.1 \%$ |
| Individuals/NGOs |  |  |

Participation of civil society is represented by Catholic, Protestant, Adventist, and Islamic communities, Parents' associations, and individuals and/or NGOs. This is at $76.0 \%$. Parents' associations have the highest percentage of representation at $39.6 \%$. Protestant and Adventist community has the lowest ownership with I.0\% respectively.

Table 2.4: Type of services offered in Pre-Nursery Centres in 2017 and 2018

| Centre by type of services offered/year | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: |
| Positive Parent Education program | 41 | 65 |
| Health and nutrition services | 45 | 67 |
| Child protection | 61 | 72 |
| Early learning \& stimulation (education) | 84 | 84 |
| Percentage compare to total centers |  |  |
| Positive Parent Education program | $45.6 \%$ | $67.7 \%$ |
| Health and nutrition services | $50.0 \%$ | $69.8 \%$ |
| Child protection | $67.8 \%$ | $75.0 \%$ |
| Early learning \& stimulation (education) | $93.3 \%$ | $87.5 \%$ |

They are four types of services offered in pre-Nursery centres: Positive Parent Education program is offered in $67.7 \%$ of all centres, Health and nutrition services is offered in $69.8 \%$ of all centres, Child protection at $75.0 \%$ of all centres and early learning \& stimulation services at 87.5\% of all centres.

### 2.1.2 Pre-Nursery learners

Table 2.5: Number of Pre-Nursery children in 2017 and 2018

| Indicator/Year | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: |
| Total Pre-Nursery learners | $\mathbf{5 , 2 3 4}$ | $\mathbf{6 , 4 9 I}$ |
| Male | 2,516 | 3,199 |
| Female | 2,718 | 3,292 |
| \% of Male | $48.1 \%$ | $49.3 \%$ |
| \% of Female | $51.9 \%$ | $50.7 \%$ |
| Pre-Nursery learners in private centres | $\mathbf{3 , 3 0 2}$ | $\mathbf{3 , 5 9 8}$ |
| Male | $\mathbf{I , 5 5 3}$ | $\mathrm{I}, 750$ |
| Female | $\mathbf{I , 7 4 9}$ | 1,848 |
| \% of Male | $47.0 \%$ | $48.6 \%$ |
| \% of Female | $53.0 \%$ | $51.4 \%$ |
| Pre-Nursery learners in Public centres | $\mathbf{1 , 9 3 2}$ | $\mathbf{2 , 8 9 3}$ |
| Male | 963 | $\mathbf{I , 4 4 9}$ |
| Female | 969 | $\mathbf{I , 4 4 4}$ |
| \% of Male | $49.8 \%$ | $50.1 \%$ |
| \% of Female | $50.2 \%$ | $49.9 \%$ |

Table 2.5 and figure 2.1 shows that the number of learners enrolled in in pre-Nursery centres is 6,49 I among them $3,598(55.4 \%)$ are enrolled in private pre-Nursery centres while 2,893 (44.6\%)
are enrolled in Public centres. Generally, the percentage of girls enrolled in pre-Nursery is higher than that the number of boys. The Percentage of girls decreased to $0.3 \%$ in 2018. However, the number of girls continues to be higher than that of boys which is normal as it indicated in population census.

Figure 2.1: Proportion of Pre-Nursery learners by centre's status in 2018


The high proportion of pre-nursery leaners are enrolled in private centres in 2018
Table 2.6: Number of refugees enrolled in Pre-Nursery schools in 2018

| Description/Year | $\mathbf{2 0 1 8}$ |
| :--- | ---: |
| Total Refugee Students | $\mathbf{3 7}$ |
| Male | 19 |
| Female | 18 |
| $\%$ of Male | $5 I .4 \%$ |
| \% of Female | $48.6 \%$ |
| Refugee Students in Public schools | $\mathbf{0}$ |
| Male | 0 |
| Female | 0 |
| Refugee Students in Government aided schools | $\mathbf{3 7}$ |
| Male | 19 |
| Female | 18 |
| Refugee Students in Private schools | $\mathbf{0}$ |
| Male | 0 |
| Female | 0 |

The number of refugees in pre-nursery schools, are enrolled only in government aided school in 2018.

Figure 2.2: Refugees in ECD in 2018 June by camp (as of June 2018)


As per the report from UNHCR, Refugee education overview, 2018. The big proportion of refugees (49\%) in ECD are in Mahama camp.

## 2.I. 3 Care-givers in Pre-Nursery Centres

Table 2.7: Care-givers in Pre-Nursery centres in 2017 and 2018

| Indicator/Year | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: |
| Total Care-givers in Pre-Nursery Centres | $\mathbf{2 4 3}$ | $\mathbf{2 6 2}$ |
| Male | 62 | 47 |
| Female | 181 | 215 |
| \% of Male | $25.5 \%$ | $17.9 \%$ |
| \% of Female | $74.5 \%$ | $82.1 \%$ |
| Pre-Nursery Care-givers in Private Centres | $\mathbf{1 4 2}$ | $\mathbf{1 3 3}$ |
| Male | 28 | 12 |
| Female | 114 | 121 |
| \% of Male | $19.7 \%$ | $9.0 \%$ |
| \% of Female | $80.3 \%$ | $91.0 \%$ |
| Pre-Nursery Care-givers in Public Centres | $\mathbf{1 0 1}$ | $\mathbf{1 2 9}$ |
| Male | 34 | 35 |
| Female | 67 | 94 |
| \% of Male | $33.7 \%$ | $27.1 \%$ |
| \% of Female | $66.3 \%$ | $72.9 \%$ |
| Pre-Nursery Care-givers Trained | $\mathbf{8 1}$ | $\mathbf{1 2 4}$ |
| Male Trained | 26 | 36 |
| Female Trained | 55 | 88 |
| \% of Trained Care-givers | $33.3 \%$ | $47.3 \%$ |
| \% of Male Trained | $41.9 \%$ | $76.6 \%$ |
| \% Female Trained | $30.4 \%$ | $40.9 \%$ |
| Learners: Care-givers Ratio | $\mathbf{2 2}$ | $\mathbf{2 5}$ |
| Learners: Trained Care-givers Ratio | $\mathbf{6 5}$ | $\mathbf{5 2}$ |

Table 2.6 shows that 133 care-givers ( $50.7 \%$ of total care-givers) work in private pre- Nursery centres while 129 care-givers ( $49.2 \%$ of total care-givers) are working in public pre- Nursery. The ratio of learners per care-giver equal 27:I in private centres and 22:I in public centres. The overall ratio stands at 25 learners per one care-giver. The percentage of female are outnumbering that of male care-givers: $82.1 \%$ vis a vis $17.9 \%$. 52 care-givers out of 262 care-givers are trained in teaching in ECE.

## 2.I. 4 Water and Sanitation in Pre-Nursery centres

Table 2.8: Water in Pre-Nursery centres for 2017 and 2018

| Indicator/Year | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: |
| Number of Pre-Nursery Centres with rain water harvesting system | $\mathbf{4 8}$ | $\mathbf{5 7}$ |
| \% of Pre-Nursery Centres with Rain water harvesting system | $53 \%$ | $59 \%$ |
| Number of Pre-Nursery Centre with Tap water supply | $\mathbf{2 8}$ | $\mathbf{4 3}$ |
| \% of Pre-Nursery Centres with Tap water supply | $31 \%$ | $45 \%$ |
| Number of Pre-Nursery Centre with safe drinking water | - | $\mathbf{4 6}$ |
| \% of Pre-Nursery Centres with safe drinking water | - | $48 \%$ |
| Number of Pre-Nursery Centre with handwashing facilities | - | $\mathbf{5 6}$ |
| \% of Pre-Nursery Centres with handwashing facilities | - | $58 \%$ |

The number of pre-Nursery center with rain water harvesting system increased from $53 \%$ in 2017 to $59 \%$ in 2018 and centers with tap water supply increased from $31 \%$ in 2017.

Table 2.9: Toilets in Pre-Nursery centres for 2017 and 2018

| Indicator/Year | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: |
| Number of Pre-Nursery Centres with single sex toilet | $\mathbf{3 1}$ | $\mathbf{6 3}$ |
| \% of Pre-Nursery Centres with single sex toilets | $34.4 \%$ | $65.6 \%$ |
| Number of toilets in the Centres | $\mathbf{1 7 7}$ | $\mathbf{3 8 2}$ |
| For Female students | 91 | 172 |
| For Male students | 86 | 171 |
| Ratio children per toilet | $\mathbf{2 2}$ | $\mathbf{1 9}$ |
| Female students | 22 | 19 |
| Male students | 22 | 19 |

The number of centers with toilets increased from 70 to 90 centres. This is an increment of $25.8 \%$. Only $65.6 \%$ had single sex toilets. The number of toilets for Female increased from 91 in 2017 to 172 in 2018 and that for the Male increased on the rate of $100 \%$ from 86 in 2017 to 171 in 2018. The ratio of children per toilet is 19 children for one toilet for both Male and Female.

### 2.2 NURSERY EDUCATION

This paragraph highlight trend in Nursery (or pre-primary) for the least three years, the official age to attend this level is between 4 to 6 years. It is equivalent to ISCED 02 in the International Standards Classification for Education.

### 2.2.I Nursery school infrastructure

Table 2.10: Number of Nursery schools, by schools 'status from 2016 to 2018

| Schools 'status | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Total schools | $\mathbf{2 , 7 5 7}$ | $\mathbf{3 , 1 8 6}$ | $\mathbf{3 , 2 1 0}$ |
| Public schools | 527 | 455 | 455 |
| Government aided schools | 947 | 1,484 | 1,632 |
| Private schools | 1,283 | 1,247 | 1,123 |
| Average pupils per school | $\mathbf{7 0}$ | $\mathbf{6 9}$ | $\mathbf{7 1}$ |
| Public schools | 65 | 71 | 70 |
| Government aided schools | 66 | 66 | 67 |
| Private schools | 70 | 73 | 77 |

Most of Nursery schools are community based and located within compounds of public schools. This can explain the fluctuation observed for school 'status: The total number of Nursery schools in 2018 is 3,210 among them 455 are public while I,632 are Government aided and I, 123 are private schools. The average pupils per school is 70,67 and 77 for public, government aided and private schools respectively.

Table 2.11: Number of Nursery schools, by settings from 2016 to 2018

| Schools by Settings/ Year | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Total schools | $\mathbf{2 , 7 5 7}$ | $\mathbf{3 , 1 8 6}$ | $\mathbf{3 , 2 1 0}$ |
| Nursery only | 875 | $\mathrm{I}, 03 \mathrm{I}$ | $\mathbf{I}, 037$ |
| Nursery + Primary | $\mathrm{I}, \mathrm{I76}$ | $\mathrm{I}, 315$ | $\mathrm{I}, 361$ |
| Nursery +9YBE | 372 | 443 | 454 |
| Nursery +I2YBE | 334 | 397 | 358 |
| Percentage compare to total number of schools | $\mathbf{1 0 0 \%}$ | $\mathbf{1 0 0 \%}$ | $\mathbf{1 0 0 \%}$ |
| Nursery only | $31.7 \%$ | $32.4 \%$ | $32.3 \%$ |
| Nursery + Primary | $42.7 \%$ | $41.3 \%$ | $42.4 \%$ |
| Nursery +9YBE | $\mathbf{I 3 . 5 \%}$ | $\mathbf{1 3 . 9 \%}$ | $\mathbf{1 4 . 1 \%}$ |
| Nursery +I2YBE | $\mathbf{I 2 . 1 \%}$ | $\mathbf{I 2 . 5 \%}$ | $\mathbf{I I . 2 \%}$ |

As shown in the table 2.10 Nursery schools increased from 3,186 in 2017 to 3,210 in 2018. The Nursery school attached to primary has the highest percentage of 42.4\%.

Table 2.12: Nursery School attached to a higher level in 2016 to 2018

| Indicator/Year | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Number of Nursery schools located in the same premises <br> with a higher level | $\mathbf{I , 8 8 2}$ | $\mathbf{2 , 1 5 5}$ | $\mathbf{2 , 1 7 3}$ |
| Percentage of Nursery schools located in the same premises with a <br> higher level | $68.3 \%$ | $67.6 \%$ | $67.7 \%$ |

The number of Nursery schools located in the same premises with a higher level increased from $67.6 \%$ (2017) to $67.7 \%$ in (2018)

Table 2.13: Number of Nursery schools, by ownership from 2016 to 2018

| School by Owner/Year | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Total number of schools | $\mathbf{2 , 7 5 7}$ | $\mathbf{3 , 1 8 6}$ | $\mathbf{3 , 2 1 0}$ |
| Government | 527 | 468 | 459 |
| Catholic | 639 | 781 | 812 |
| Protestant | 629 | 685 | 732 |
| Adventist | 55 | 50 | 76 |
| Islamic | 13 | 19 | 28 |
| Parents associations | 683 | 929 | 838 |
| Individuals/NGOs | 211 | 254 | 265 |
| Percentage of schools by owner | $\mathbf{1 0 0 \%}$ | $\mathbf{1 0 0 \%}$ | $100 \%$ |
| Government | $19.1 \%$ | $14.7 \%$ | $14.3 \%$ |
| Catholic | $23.2 \%$ | $24.5 \%$ | $25.3 \%$ |
| Protestant | $22.8 \%$ | $21.5 \%$ | $22.8 \%$ |
| Adventist | $2.0 \%$ | $1.6 \%$ | $2.4 \%$ |
| Islamic | $0.5 \%$ | $0.6 \%$ | $0.9 \%$ |
| Parents associations | $24.8 \%$ | $29.2 \%$ | $26.1 \%$ |
| Individuals/NGOs | $7.7 \%$ | $8.0 \%$ | $8.3 \%$ |

The number of Nursery schools has increased from 3,186(2017) to 3,210 (2018). This translates to $0.7 \%$. However, schools under the ownership of Government, Adventist and Protestant decreased in numbers during the same period. This decrease has been offset by the increase in schools owned by the parents' associations.

Table 2.14: Number of Nursery classrooms, by schools 'status from 2016 to 2018

| Schools 'status | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: |
| Total classrooms | $\mathbf{4 , 4 2 7}$ | $\mathbf{5 , 2 0 7}$ | $\mathbf{5 , 5 0 9}$ |
| In Public schools | 701 | 615 | 608 |
| In Government aided schools | 1,243 | 1,896 | 2,234 |
| In Private schools | 2,483 | 2,696 | 2,667 |
| Average pupils per classroom | $\mathbf{4 2}$ | $\mathbf{4 2}$ | $\mathbf{4 1}$ |
| In Public schools | 49 | 52 | 53 |
| In Government aided schools | 50 | 51 | 49 |
| In Private schools | 36 | 34 | 32 |

In 2018, the total number of classrooms is 5,509 among them 608 (11\%) in public schools while $2,234(40.5 \%)$ are in government aided and $2,667(48.4 \%)$ are in private schools. Table 2.10 shows that from 2016 to 2018 the number of classrooms increased in Government aided and private schools while it decreased for public schools. The overall pupil per classroom is 41 pupils per classroom but public schools have the highest ratio (53:1 in 2018) and private have the lowest ratio (32:1 in 2018).


Map 2.I: Average Pupils per classroom in Nursery
Thought the average pupil per classroom is 4 I this ratio varies according to school status, district, sectors and schools. The map2.I shows that some district like Ngoma, Nyaruguru, Nyanza and Ngororero have the highest ratio while districts like Rubavu, Gasabo, Nyarugenge, Kicukiro, Rwamagana and Bugesera have the lowest ratio.

Table 2.15: Number of Nursery desks, by schools 'status from 2016 to 2018

| Schools 'status | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Total desks | $\mathbf{7 4 , 5 1 5}$ | $\mathbf{8 6 , 6 0 7}$ | $\mathbf{1 0 3 , 9 9 3}$ |
| In Public schools | 12360 | 11763 | 13780 |
| In Government aided schools | $2 I, 084$ | 31,513 | 37,802 |
| In Private schools | $4 I, 071$ | $43,33 \mathrm{I}$ | $52,41 \mathrm{I}$ |
| Average pupils per desk | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{2}$ |
| In Public schools | 3 | 3 | 2 |
| In Government aided schools | 3 | 3 | 3 |
| In Private schools | 2 | 2 | 2 |

Table 2.1I shows that between 2017 and 2018 the number of desks increased. In general, the average pupil per desk decreased from 3 in 2017 to 2 in 2018. In Private and public schools, the ratio of pupils per desk is 2 while it stands at 3 in government aided schools.

### 2.2.2 Nursery school pupils

Table 2.16: Nursery pupils enrolled from 2016 to 2018

| Indicator/Year | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Total (pupils) | $\mathbf{1 8 5 , 6 6 6}$ | $\mathbf{2 2 0 , 4 3 5}$ | $\mathbf{2 2 6 , 7 0 6}$ |
| Male | 91,356 | 108,462 | 112,044 |
| Female | 94,310 | 111,973 | 114,662 |
| \% of Male | $49.2 \%$ | $49.2 \%$ | $49.4 \%$ |
| \% of Female | $50.8 \%$ | $50.8 \%$ | $50.6 \%$ |
| Pupils in public schools | $\mathbf{3 4 , 3 3 5}$ | $\mathbf{3 2 , 2 8 I}$ | $\mathbf{3 1 , 9 4 0}$ |
| Male | 16,836 | 15,765 | 15978 |
| Female | $\mathbf{1 7 , 4 9 9}$ | 16,516 | 15962 |
| Pupils in Government aided schools | $\mathbf{6 2 , 1 0 6}$ | $\mathbf{9 7 , 2 2 6}$ | $\mathbf{I 0 8 , 7 5 0}$ |
| Male | 30,242 | $47,43 \mathrm{I}$ | 53386 |
| Female | 31,864 | 49,795 | 55364 |
| Pupils in Private schools | $\mathbf{8 9 , 2 2 5}$ | $\mathbf{9 0 , 9 2 8}$ | $\mathbf{8 6 , 0 1 6}$ |
| Male | 44,278 | 45,266 | 42680 |
| Female | 44,947 | 45,662 | 43336 |

The table 2.15 indicates that 226,706 pupils enrolled in Nursery schools and this represents an increment of $6,244(28.3 \%)$ in comparison to 2017 pupils $(220,435)$. The number of enrolled pupils increased in government aided schools from 97,226 in 20167 to 108,750 in 2018.

However, in public and private schools there is a decrease from 32,28I and 90,928 in 2017 to 31,940 and 86,016 in 2018 respectively. The proportion of Nursery pupils are as follow: $14.1 \%$ in public, $48.0 \%$ in government aided and $37.9 \%$ in private schools. The GPI is $I .02$ which shows that the target of I. 03 set in the ESSP has been achieved. However, the number of both girls and boys accessing Nursery schools continue to be low and more efforts are needed to increase enrollment in Nursery schools.

Figure 2.3: Proportion of Nursery pupils by school's status in 2018


Table 2.17: Nursery school pupil's enrolment by grade in 2017 and 2018

| Grade | $\mathbf{2 0 1 7}$ |  |  | $\mathbf{2 0 1 8}$ |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
|  | Male | Female | Total | Male | Female | Total |
| Nursery I | 51,485 | 54,214 | 105,699 | 45,962 | 47,884 | 93,846 |
| Nursery 2 | 22,537 | 22,596 | 45,133 | 23,575 | 23,821 | 47,396 |
| Nursery 3 | 34,440 | 35,163 | 69,603 | 42,507 | 42,957 | 85,464 |
| Total | $\mathbf{1 0 8 , 4 6 2}$ | $\mathbf{I I I , 9 7 3}$ | $\mathbf{2 2 0 , 4 3 5}$ | $\mathbf{I I 2 , 0 4 4}$ | $\mathbf{1 1 4 , 6 6 2}$ | $\mathbf{2 2 6 , 7 0 6}$ |

The number of pupils enrolled in Nursery I decreased from 105,699 in 2017 to 93,846 in 2018 and increased from 45,133 in 2017 to 47,396 in 2018 in Nursery 2 and from 69,603 in 2017 to 85,464 in 2018 . The discrepancy observed in the number of students per grade can be explained by the structure of Nursery schools especially in rural area, where school use one room, and during the reporting they use estimate to categorize students in three levels. Ideally, the number of learners in Nursery 3 in 2018, should be equal or less than the number of learners in Nursery 2 in 2017.

Table 2.18: Nursery GER and NER from 2016 to 2018

| Indicator/Year | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Gross Enrolment Rate (Overall) | $\mathbf{2 3 . 8 \%}$ | $\mathbf{2 4 . 1 \%}$ | $\mathbf{2 4 . 4 \%}$ |
| GER Male | $23.3 \%$ | $23.7 \%$ | $24.0 \%$ |
| GER Female | $24.2 \%$ | $24.5 \%$ | $24.8 \%$ |
| Net Enrolment Rate (Overall) | $\mathbf{1 7 . 5 \%}$ | $\mathbf{2 0 . 6 \%}$ | $\mathbf{2 0 . 8 \%}$ |
| NER Male | $\mathbf{1 7 . 1 \%}$ | $20.2 \%$ | $20.4 \%$ |
| NER Female | $\mathbf{1 7 . 9 \%}$ | $20.9 \%$ | $21.2 \%$ |

The Gross Enrolment Rate (GER) increased from $24.1 \%$ in 2017 to $24.4 \%$ in 2018. The Net Enrolment Rate (NER) also showed marginal increase from 20.6\% in 2017 to $20.8 \%$ in 2018. However, in absolute terms, both GER and NER remain low for the Nursery level since the ESSP target are respectively ( $28.8 \%$ ) and ( $24.1 \%$ ), more effort is needed to achieve the target. More effort is needed to increase access at Nursery level.

Figure 2.4: Distribution of Nursery pupils by age and sex in 2018


Table 2.19: Number of refugees in Nursery Schools in 2018

| Description/Year | $\mathbf{2 0 1 8}$ |
| :--- | ---: |
| Total Refugee Students | $\mathbf{1 , 9 8 2}$ |
| Male | 998 |
| Female | 984 |
| \% of Male | $50.4 \%$ |
| \% of Female | $49.6 \%$ |
| Refugee Students in Public schools | $\mathbf{1 1 2}$ |
| Male | 74 |
| Female | 38 |
| Refugee Students in Government aided schools | $\mathbf{2 9}$ |
| Male | 16 |
| Female | 13 |
| Refugee Students in Private schools | $\mathbf{1 , 8 4 1}$ |
| Male | 908 |
| Female | 933 |

The high proportion of refugees is enrolled in private school with $92 \%$ Of the total nursery refugees

### 2.2.3 Nursery school staff

Table 2.20: Nursery school staff from 2016 to 2018

| INDICATOR/YEAR | 2016 | 2017 | 2018 |
| :---: | :---: | :---: | :---: |
| School staff | 5,859 | 6,812 | 7,178 |
| Male | 1,297 | 1,367 | 1,457 |
| Female | 4,562 | 5,445 | 5,721 |
| \% of Male | 22.1\% | 20.1\% | 20.3\% |
| \% of Female | 77.9\% | 79.9\% | 79.7\% |
| Teaching staff | 5,024 | 6,039 | 6,280 |
| Male | 846 | 956 | 994 |
| Female | 4,178 | 5,083 | 5,286 |
| \% of Male | 16.8\% | 15.8\% | 15.8\% |
| \% of Female | 83.2\% | 84.2\% | 84.2\% |
| Administrative staff | 835 | 773 | 898 |
| Male | 45I | 411 | 463 |
| Female | 384 | 362 | 435 |
| \% of Male | 54.0\% | 53.2\% | 51.6\% |
| \% of Female | 46.0\% | 46.8\% | 48.4\% |
| Qualified teachers | 4,114 | 5,116 | 5,414 |
| Qualified Male Teachers | 660 | 778 | 813 |
| Qualified Female Teachers | 3,454 | 4,338 | 4,601 |
| \% of Qualified Teachers | 81.9\% | 84.7\% | 86.2\% |
| \% of Qualified Male teachers | 78.0\% | 81.4\% | 81.8\% |
| \% Qualified Female teachers | 82.7\% | 85.3\% | 87.0\% |
| Trained Teacher | 2,060 | 2,512 | 3,392 |
| Trained Male Teachers | 332 | 395 | 733 |
| Trained Female Teachers | 1,728 | 2,117 | 2,659 |
| \% of Trained Teachers | 52.7\% | 41.6\% | 47.3\% |
| \% of Trained Male teachers | 55.7\% | 41.3\% | 50.3\% |
| \% Trained Female teachers | 49.2\% | 41.6\% | 46.5\% |
| Pupils: Teacher Ratio | 32 | 37 | 32 |
| Pupils: Qualified Teacher Ratio | 45 | 43 | 36 |
| Pupils: Trained Teacher Ratio | 90 | 88 | 67 |

The table 2.19 indicates that the number of school staff has increased by $366(4.9 \%)$ from 2017 to 2018 , among them teaching staff are 6,280 while administrative staff are 898 . The number of qualified teachers increased from $5,116(84.7 \%)$ in 2017 to $6,256(87.2 \%)$ in 2018 while the number of teachers trained to teach in Nursery schools increased from 2,5I2 (4I.6\%) in 2017 to $3,3392(47.3 \%)$ in 2018. The proportion of male teachers remains low $15.8 \%$ in comparison to females (84.2\%).

The number of qualified teachers continues to increase for both female and male where by the proportion of female qualified teachers increased from $85.3 \%$ in 2017 to $87.0 \%$ in 2018 and the proportion of male qualified teachers went up from $81.4 \%$ in 2017 to $81.8 \%$ in 2018.

In 2018, generally the pupils- teacher ratio improved from 37:1 in 2017 to 32 : In 2018 while pupils-qualified teacher students improved from $43: 1$ to $36: 1$. The ESSP target (43:I) was achieved. and the trained teacher ratio from 88:I to 67:I, the ESSP target (84:I) was achieved as well.

Table 2.21: Number of Nursery school staff in 2018 school year by status

| Status | Teaching staff |  | Administrative staff |  | Total |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | Male | Female | Male | Female | Male | Female | Total |
| Public | 92 | $54 I$ | 32 | 23 | $\mathbf{1 2 4}$ | 564 | $\mathbf{6 8 8}$ |
| Government aided | 370 | 2,014 | 125 | 93 | 495 | $\mathbf{2 , 1 0 7}$ | $\mathbf{2 , 6 0 2}$ |
| Private | 532 | $2,73 I$ | 306 | 319 | $\mathbf{8 3 8}$ | $\mathbf{3 , 0 5 0}$ | $\mathbf{3 , 8 8 8}$ |
| Total | 994 | $\mathbf{5 , 2 8 6}$ | 463 | 435 | $\mathbf{1 , 4 5 7}$ | $\mathbf{5 , 7 2 I}$ | $\mathbf{7 , 1 7 8}$ |

The table2.20 indicates that 54.1\% of staff are in private schools, $36.2 \%$ in government aided schools and $9.5 \%$ in public schools.

### 2.2.4 Books and Textbooks in Nursery schools

Table 2.22: Books in use in Nursery schools by level and subject in 2018

| Number of books |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: |
| Subjects | Nursery I | Nursery 2 | Nursery 3 | Total |
| Discovery of the World | 6,516 | 5,294 | 7,435 | 19,245 |
| Numeracy | 9,398 | 6,726 | 10,235 | 26,359 |
| Physical and Health development | 4,750 | 3,641 | 5,394 | 13,785 |
| Creative arts and Culture | 5,549 | 4,491 | 6,284 | 16,324 |
| Language and literacy: Kinyarwanda | 12,084 | 8,043 | 16,752 | 36,879 |
| Language and literacy: English | 10,235 | 8,069 | 10,892 | 29,196 |
| Social and Emotional development | 5,920 | 4,753 | 7,165 | 17,838 |
| Pupil: book ratio |  |  |  |  |
| Subjects | Nursery I | Nursery 2 | Nursery 3 | overall |
| Discovery of the World | 14 | 9 | 11 | 12 |
| Numeracy | 10 | 7 | 8 | 9 |
| Physical and Health development | 20 | 13 | 16 | 16 |
| Creative arts and Culture | 17 | 11 | 14 | 14 |
| Language and literacy: Kinyarwanda | 8 | 6 | 5 | 6 |
| Language and literacy: English | 9 | 6 | 8 | 8 |
| Social and Emotional development | 16 | 10 | 12 | 13 |

The very high pupil-book ratio for children in Nursery is an issue of concern. As indicated by the table 2.2 I, the pupil-book ratio remains very high for all subjects and all grades.

### 2.2.5 Source of energy in Nursery schools

Table 2.23: Source of energy in Nursery schools from 2016 to 2018

| INDICATOR/YEAR | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Number of schools with on grid electricity supply | $\mathbf{3 6 0}$ | $\mathbf{I}, \mathbf{0 3 0}$ | $\mathbf{1 , 2 7 7}$ |
| \% of school with on grid electricity supply | $\mathbf{1 3 . 1 \%}$ | $32.3 \%$ | $39.8 \%$ |
| Number of schools with Solar power | $\mathbf{5 I}$ | $\mathbf{1 7 7}$ | $\mathbf{1 9 1}$ |
| \% of school with Solar power | $\mathbf{1 . 8 \%}$ | $5.6 \%$ | $6.0 \%$ |
| Number of schools with Electric power generator supply | $\mathbf{5 8}$ | $\mathbf{7 8}$ | $\mathbf{1 2 0}$ |
| \% of school with Electric power generator supply | $2.1 \%$ | $2.4 \%$ | $3.7 \%$ |
| Number of schools with Biogas system | $\mathbf{6}$ | $\mathbf{4}$ | $\mathbf{I I}$ |
| \% of school with Biogas system | $0.2 \%$ | $0.1 \%$ | $0.3 \%$ |

The number of Nursery schools with on grid electricity supply increased from I,030 (32.3\%) in 2017 to $1,277(39.8 \%)$ in 2018 . However, the target of $40.7 \%$ was not yet achieved. Solar power is the next major source of energy used by $6.0 \%$ of Nursery schools. $3.7 \%$ of schools use electrical generator supply while 0.3 use the biogas as source of energy. In general, out of 3210 Nursery schools, only 1599 has one of the 4 mentioned sources of energy and this represents $49.8 \%$

### 2.2.6 Water and sanitation in Nursery schools

Table 2.24: Water in Nursery schools from 2016 to 2018

| INDICATOR/YEAR | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Number of Nursery schools with safe drinking water | - | $\mathbf{6 1 2}$ | $\mathbf{8 8 3}$ |
| \% of Nursery schools with safe drinking water | - | $19.0 \%$ | $27.5 \%$ |
| Number of Nursery schools with rain water harvesting <br> system | $\mathbf{2 8 3}$ | $\mathbf{8 0 6}$ | $\mathbf{9 4 9}$ |
| \% of Nursery schools with rain water harvesting system | $10.3 \%$ | $25.0 \%$ | $29.6 \%$ |
| Number of Nursery schools with tap water supply | $\mathbf{3 9 0}$ | $\mathbf{7 6 6}$ | $\mathbf{9 4 2}$ |
| \% of Nursery schools with tap water supply | $\mathbf{1 4 . 1 \%}$ | $24.0 \%$ | $29.3 \%$ |
| Number of Nursery schools with hand washing facilities | $\mathbf{5 6 0}$ | $\mathbf{7 5 4}$ | $\mathbf{9 1 9}$ |
| \% of Nursery schools with hand washing facilities | $19.9 \%$ | $24.0 \%$ | $\mathbf{2 8 . 6 \%}$ |

In 2018, there is an increase in water and sanitation facilities as compared to 2017. The percentage of Nursery schools with safe drinking water, rain water harvesting systems, tap water supplies, and hand washing facilities have all increased significantly compared to 2017, respectively $27.5 \%$, $29.6 \%$ and $29.3 \%$. This is in line with ESSP which committed to help schools to meet minimum standards by increasing modern infrastructure, facilities and resources including water and sanitation. However current situation lags behind the ESSP target, for safe drinking water target is $30.1 \%$, Nursery schools with hand washing facilities target is $53 \%$ in 2018 , more effort should be made, since so far only $28.6 \%$ of nursery schools have hand washing facilities, Rain water harvesting system does not have targets in ESSP.

Table 2.25: Toilets in Nursery schools from 2016 to 2018

| INDICATOR/YEAR | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Number of toilets in the school | $\mathbf{7 , 7 6 9}$ | $\mathbf{9 , 7 8 9}$ | $\mathbf{1 0 , 3 7 2}$ |
| For female | 3,941 | 5,012 | 5,136 |
| For Male | 3,828 | 4,777 | 5,236 |
| For students | $\mathbf{6 , 7 6 5}$ | $\mathbf{8 , 7 1 7}$ | $\mathbf{9 , 1 2 2}$ |
| For Female students | 3,411 | 4,422 | 4,580 |
| For Male students | 3,354 | 4,295 | 4,542 |
| For staff | $\mathbf{1 , 0 0 6}$ | $\mathbf{1 , 0 7 4}$ | $\mathbf{1 , 2 5 0}$ |
| For female staff | 531 | 591 | 656 |
| For Male staff | 475 | 483 | 594 |
| Ratio toilet per users | $\mathbf{2 5}$ | $\mathbf{2 3}$ | $\mathbf{2 2}$ |
| Female | 25 | 23 | 23 |
| Male | 24 | 23 | 22 |
| Students | $\mathbf{2 7}$ | $\mathbf{2 5}$ | $\mathbf{2 5}$ |
| Female students | 28 | 25 | 25 |
| Male students | 27 | 25 | 25 |
| Staff | $\mathbf{6}$ | $\mathbf{6}$ | $\mathbf{5}$ |
| Female staff | 9 | 9 | 8 |
| Male staff | 3 | 3 | 2 |

The ratio of toilet per users remained constant to 25 for learners improved from 6 to 5 for staff. It is not easy to compare current data with ESSP target since ESSP targets improved toilets at $10.6 \%$.

### 2.2.7 School feeding program in Nursery schools

Table 2.26: Nursery school feeding program from 2016 to 2018

| INDICATOR/YEAR | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Number of Nursery school participating in school <br> feeding | $\mathbf{2 7 3}$ | $\mathbf{3 7 9}$ | $\mathbf{6 2 5}$ |
| \% of Nursery school participating in school feeding | $9.9 \%$ | $11.9 \%$ | $19.5 \%$ |
| Number of schools with nutrition garden | $\mathbf{2 4 2}$ | $\mathbf{3 1 4}$ | $\mathbf{4 4 0}$ |
| \% of school with nutrition garden | $8.0 \%$ | $9.9 \%$ | $13.7 \%$ |
| Number of students feed at school | $\mathbf{2 4 , 9 4 8}$ | $\mathbf{3 3 , 9 4 4}$ | $\mathbf{4 9 , 4 0 1}$ |

The number of Nursery schools participating in School feeding has increased significantly from $11.9 \%$ in 2017 to 19.5 in 2018 , meaning an increase of $7.6 \%$, and schools with nutrition gardens from 2017 to 2018 has increased by $3.8 \%$. However more efforts are needed to meet the target of feeding all kids in Nursery schools by sensitizing parents to contribute for the school feeding programme as stipulated in ESSP that this program will be owned by community.

### 2.2.8 Special need education in Nursery schools

Table 2.27: Special need education in Nursery from 2016 to 2018

| INDICATOR/YEAR | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Number of schools with adapted infrastructure and <br> materials for students with disabilities | - | $\mathbf{1 8 3}$ | $\mathbf{2 6 4}$ |
| \% of school with adapted infrastructure and materials for students <br> with disabilities | - | $5.7 \%$ | $8.2 \%$ |
| Number of students with disability enrolled in Nursery | $\mathbf{I}, 545$ | $\mathbf{1 , 3 6 2}$ | $\mathbf{1 , 2 5 3}$ |
| Male | 925 | 829 | 743 |
| Female | 620 | 533 | 510 |
| \% of Male | $59.9 \%$ | $60.9 \%$ | $59.3 \%$ |
| \% of Female | $40.1 \%$ | $39.1 \%$ | $40.7 \%$ |
| Number of teacher trained in special needs and inclusive <br> education | $\mathbf{2 4 6}$ | $\mathbf{3 1 4}$ | $\mathbf{5 0 8}$ |
| Male | 76 | 72 | 110 |
| Female | $\mathbf{1 7 0}$ | 242 | 398 |
| \% of Male | $30.9 \%$ | $23.0 \%$ | $21.7 \%$ |
| \% of Female | $69.1 \%$ | $77.0 \%$ | $78.3 \%$ |

In general, the number of students with disability enrolled in Nursery decreased by II.8\% from $\mathrm{I}, 545$ in 2016 to $\mathrm{I}, 362$ in 2017 on both Male and Female. The percentage of nursery schools meeting standards of accessibility for LwD is $8.2 \%$, the ESSP target (IO\%) in 2018 is not yet achieved. Further investment should be made to increase infrastructure to facilitate accessibility for students with disabilities in nursery schools

Table 2.28: Nursery school pupils with disability in 2018

| Type of disability | Male | Female | Total |
| :--- | ---: | ---: | ---: |
| Hearing | 56 | 44 | $\mathbf{1 0 0}$ |
| Visual | 93 | 88 | $\mathbf{1 8 1}$ |
| Speaking | 187 | 103 | $\mathbf{2 9 0}$ |
| Hearing and speaking | 36 | 30 | $\mathbf{6 6}$ |
| Physical | 222 | 132 | $\mathbf{3 5 4}$ |
| Learning | 110 | 84 | $\mathbf{1 9 4}$ |
| Multiple disabilities | 39 | 29 | $\mathbf{6 8}$ |
| Total | $\mathbf{7 4 3}$ | $\mathbf{5 1 0}$ | $\mathbf{1 , 2 5 3}$ |

The table 2.27 shows that I, 253 pupils with disabilities out of 226,706 are enrolled in Nursery schools and his represents $0.5 \%$ of pupils enrolled in Nursery schools. Physical disabilities seem to be the category with the largest representation with 354 pupils (28.2\%).

Table 2.29: Nursery school pupils with disability in 2017 and 2018

| Level |  | 2017 |  |  | 2018 |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | :---: |
|  |  | Female | Total | Male | Female | Total |  |
| Nursery I | 379 | 244 | 623 | 277 | 203 | 480 |  |
| Nursery 2 | 166 | 118 | 284 | 169 | 117 | 286 |  |
| Nursery 3 | 284 | 171 | 455 | 297 | 190 | 487 |  |
| Total | $\mathbf{8 2 9}$ | $\mathbf{5 3 3}$ | $\mathbf{1 , 3 6 2}$ | $\mathbf{7 4 3}$ | $\mathbf{5 1 0}$ | $\mathbf{1 , 2 5 3}$ |  |

The number of pupils with disability enrolled in Nursery schools decreased from I,362 in 2017 to 1,253 for both male and female pupils

## 3 PRIMARY EDUCATION

This paragraph highlights trend in primary schools, the official age to attend primary school is between 7 and 12 years, this level last six years and it is free and compulsory. In the International Standards Classification for Education this level is equivalent to ISCED I.

### 3.1 Primary school infrastructure

Table 3.I: Number of primary schools from 2016 to 2018 by schools' status

| School status | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Total schools | $\mathbf{2 , 8 4 2}$ | $\mathbf{2 , 8 7 7}$ | $\mathbf{2 , 9 0 9}$ |
| Public | 725 | 725 | 736 |
| Government aided | 1,769 | 1,774 | $\mathrm{I}, 78 \mathrm{I}$ |
| Private | 348 | 378 | 392 |
| Average Pupil per School | $\mathbf{8 9 6}$ | $\mathbf{8 8 3}$ | $\mathbf{8 6 1}$ |
| Public | 1,063 | $\mathrm{I}, 099$ | $\mathrm{I}, 075$ |
| Government aided | 935 | 929 | 904 |
| Private | 350 | 254 | 264 |

The table 3.1 shows that the number of schools increased from 2,877 in 2017 to 2,909 in 2018 and the average pupil per school is now 861 in 2018 . The public schools represent $25.3 \%$, government aided $61.2 \%$ and private schools $13.4 \%$.

Table 3.2: Number of primary schools by settings from 2016 to 2018

| Schools by Settings | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Total schools | $\mathbf{2 , 8 4 2}$ | $\mathbf{2 , 8 7 7}$ | $\mathbf{2 , 9 0 9}$ |
| Primary only | $\mathbf{I}, 757$ | 1,785 | 1,800 |
| Primary+ Secondary ordinary level | 589 | 592 | 615 |
| Primary+ Secondary (O+A' level) | 496 | 500 | 494 |
| Percentage | $\mathbf{1 0 0 \%}$ | $\mathbf{1 0 0 \%}$ | $\mathbf{1 0 0 \%}$ |
| Primary only | $61.8 \%$ | $62.0 \%$ | $61.9 \%$ |
| Primary+ Secondary ordinary level | $20.7 \%$ | $20.6 \%$ | $21.1 \%$ |
| Primary+ Secondary (O+A' level) | $17.5 \%$ | $17.4 \%$ | $17.0 \%$ |

Schools with only primary constituted 61.8\% of the total primary schools in 2018. Schools with primary and secondary (ordinary level) constituted $21.1 \%$ and schools with primary and secondary ( $\mathrm{O}+\mathrm{A}$ level) constituted $\mathrm{I} 6.9 \%$.

Table 3.3: Number of primary schools by owner from 2016 to 2018

| School by Owner | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Total schools | $\mathbf{2 , 8 4 2}$ | $\mathbf{2 , 8 7 7}$ | $\mathbf{2 , 9 0 9}$ |
| Government | 725 | 726 | 736 |
| Catholic | $\mathbf{I} 137$ | $\mathbf{I}, \mathrm{I52}$ | $\mathrm{I}, \mathrm{I} 53$ |
| Protestant | 640 | 647 | 648 |
| Adventist | 57 | 57 | 57 |
| Islamic | 20 | 19 | 2 I |
| Parents associations | 122 | 137 | 137 |
| Individuals/NGOs | 14 I | 139 | 157 |
| Percentage | $\mathbf{1 0 0 \%}$ | $\mathbf{1 0 0 \%}$ | $\mathbf{1 0 0 \%}$ |
| Government | $25.5 \%$ | $25.2 \%$ | $25.3 \%$ |
| Catholic | $40.0 \%$ | $40.0 \%$ | $39.6 \%$ |
| Protestant | $22.5 \%$ | $22.5 \%$ | $22.3 \%$ |
| Adventist | $2.0 \%$ | $2.0 \%$ | $2.0 \%$ |
| Islamic | $0.7 \%$ | $0.7 \%$ | $0.7 \%$ |
| Parents associations | $4.3 \%$ | $4.8 \%$ | $4.7 \%$ |
| Individuals/NGOs | $5.0 \%$ | $4.8 \%$ | $5.4 \%$ |

In 2018, school ownership is high for Catholic community (39.6\%). Generally, there was an increment in the number of schools (I.II \%) from 2017 to 2018.

Table 3.4: Number of primary classrooms from 2016 to 2018 by schools' status

| School status | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Total classrooms | $\mathbf{3 1 , 4 3 7}$ | $\mathbf{3 1 , 9 2 7}$ | $\mathbf{3 2 , 5 4 8}$ |
| Public | $8,78 \mathbf{I}$ | 9,073 | 9,287 |
| Government aided | 19,636 | 19,849 | 20,072 |
| Private | 3,020 | 3,005 | 3,189 |
| Average Pupil per Classroom | $\mathbf{8 1}$ | $\mathbf{8 0}$ | $\mathbf{7 7}$ |
| Public | 88 | 88 | 85 |
| Government aided | 84 | 83 | 80 |
| Private | 40 | 32 | 32 |

The number of classrooms increased from 31,927 in 2017 to 32,548 in 2018. The average pupil per classroom stands at 77 in 2018 . In public schools the average is 85 , in government aided 80 and private school 32.


Map 3.1: Average Pupils per classroom in primary
As illustrated in table 3.4 and map 3.1, pupil classroom ratio varies based school status, and between district. In 2018 Muhanga and Kicukiro have the lowest ratio while Kirehe and Rubavu have the highest ratio. This highlight construction could be directed to specific schools, starting from areas with highest ratio to reduce class size for better learning.

Table 3.5: Number of primary schools' classes from 2016 to 2018 by schools' status

| School status | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Total classes | $\mathbf{5 8 , 5 6 0}$ | $\mathbf{5 9 , 5 7 2}$ | $\mathbf{5 6 , 6 8 3}$ |
| Public | 17,021 | 17,680 | 16,891 |
| Government aided | 37,986 | 38,602 | 36,370 |
| Private | 3,553 | 3,290 | 3,422 |
| Average Pupil per Class | 43 | 43 | 44 |
| Public | 45 | 45 | 47 |
| Government aided | 44 | 43 | 44 |
| Private | 34 | 29 | 30 |

The number of classes decreased from 59,572 in 2017 to 56,683 in 2018. The average pupil per class stands at 44 in 2018 . In public schools the average is 47 , in government aided 44 and private school 32.

Table 3.6: Number of primary schools' desks from 2016 to 2018 by schools' status

| School status | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Total desks | $\mathbf{5 4 7 , 0 5 7}$ | $\mathbf{5 3 4 , 7 0 0}$ | $\mathbf{5 2 9 , 2 8 5}$ |
| Public | 156,039 | 156,318 | 153,863 |
| Government aided | 344,101 | 332,134 | 322,784 |
| Private | 46,917 | 46,248 | 52,638 |
| Average Pupil per desk | $\mathbf{5}$ | $\mathbf{5}$ | $\mathbf{5}$ |
| Public | 5 | 5 | 5 |
| Government aided | 5 | 5 | 5 |
| Private | 3 | 2 | 2 |

The number of desks decreased from 534,700 in 2017 to 529,285 in 2018. The average pupil per desk is 5 in 2018. In public schools the average is 5 and government aided and 2 in private schools.

### 3.2 Primary school pupils

Table 3.7: Primary school's pupils from 2016 to 2018

| Description/Year | 2016 | 2017 | 2018 |
| :---: | :---: | :---: | :---: |
| Total (pupils) | 2,546,263 | 2,540,374 | 2,503,705 |
| Male | 1,27I, 70 | 1,272,842 | 1,259,344 |
| Female | 1,275,093 | 1,267,532 | 1,244,361 |
| \% of Male | 49.9\% | 50.1\% | 50.3\% |
| \% of Female | 50.1\% | 49.9\% | 49.7\% |
| Pupils in Public schools | 770,642 | 796,899 | 790,906 |
| Male | 384,692 | 398,902 | 397,253 |
| Female | 385,950 | 397,997 | 393,653 |
| Pupils in Government aided schools | I,653,888 | I,647,498 | 1,609,47I |
| Male | 825,404 | 825,558 | 810,129 |
| Female | 828,484 | 821,940 | 799,342 |
| Pupils in Private schools | 121,733 | 95,977 | 103,328 |
| Male | 61,074 | 48,382 | 51,962 |
| Female | 60,659 | 47,595 | 51,366 |

The number of pupils in primary has decreased from 2,540,374 in 2017 to 2,503,705 in 2018. This decrease is driven by the decrease in the number of girls which decreased by $1.8 \%$ while number of boys was decreased by I\%. the GPI is 0.98 while the ESSP set the target of 0.99 in 2018. The target was not achieved, and this shows that the enrolment of boys in primary school is higher than that of female

Figure 3.1: Proportion of primary pupils by school's status in 2018


Table 3.8: Primary school pupils enrolled in 2017 and 2018 by grade

| Grade | 2017 |  |  | 2018 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | Total | Male | Female | Total |
| Primary 1 | 255,953 | 237,833 | 493,786 | 268,745 | 248,498 | 517,243 |
| Primary 2 | 278,399 | 255,325 | 533,724 | 239,865 | 221,634 | 461,499 |
| Primary 3 | 245,021 | 233,916 | 478,937 | 233,530 | 219,215 | 452,745 |
| Primary 4 | 208,425 | 213,490 | 421,915 | 214,819 | 214,593 | 429,412 |
| Primary 5 | 174,152 | 193,357 | 367,509 | 183,634 | 199, II2 | 382,746 |
| Primary 6 | 110,892 | 133,611 | 244,503 | 118,75 I | 141,309 | 260,060 |
| TOTAL | 1,272,842 | I,267,532 | 2,540,374 | 1,259,344 | 1,244,36 I | 2,503,705 |

The total enrolment of pupils decreased of I.4\% in 2018. The decrease is highly observed in primary 2 and 3.

Table 3.9: Promotion, repetition and dropout rate in primary schools

| INDICATOR/YEAR | $\mathbf{2 0 1 5 / 1 6}$ | $\mathbf{2 0 1 6 / 1 7}$ | $\mathbf{2 0 1 7 / 1 8}$ |
| :--- | ---: | ---: | ---: |
| Promotion rate | $\mathbf{7 5 . 9 \%}$ | $\mathbf{7 8 . 0 \%}$ | $\mathbf{8 0 . 0 \%}$ |
| Male | $74.4 \%$ | $76.4 \%$ | $78.6 \%$ |
| Female | $77.4 \%$ | $79.6 \%$ | $81.3 \%$ |
| Repetition Rate | $\mathbf{1 8 . 4 \%}$ | $\mathbf{1 6 . 4 \%}$ | $\mathbf{1 3 . 4 \%}$ |
| Male | $19.9 \%$ | $17.7 \%$ | $14.4 \%$ |
| Female | $16.9 \%$ | $15.1 \%$ | $12.4 \%$ |
| Dropout Rate | $\mathbf{5 . 7 \%}$ | $\mathbf{5 . 6 \%}$ | $\mathbf{6 . 7 \%}$ |
| Male | $6.0 \%$ | $5.9 \%$ | $7.0 \%$ |
| Female | $5.4 \%$ | $5.3 \%$ | $6.3 \%$ |

In 2018, the promotion rate increased from $78.0 \%$ in 2017 to $80.0 \%$ in 2018 , the repetition rate decreased from $16.4 \%$ to $13.4 \%$ while the dropout rate increased from $5.6 \%$ to $6.7 \%$ during the same period. More effort is needed to reduce dropout since the ESSP target is $5 \%$ in 2018. The high rate of repetition and dropout is observed among male students. The dropout rate has been increased from $5.3 \%$ in $2016 / 17$ to $6.3 \%$ in 2017/I8 for female, meaning that the ESSP target has not yet been achieved. The repetition rate has improved from $15.1 \%$ in $2016 / 17$ to $12.4 \%$ in $2017 / 2018$ for female meaning that the ESSP target (14.5\%) in 2018 has been achieved.

Table 3.10: Primary promotion, repetition and dropout rate by level in 2017

| Level | Promotion rate |  | Repetition rate |  |  | Dropout rate |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Primary I |  |  |  | $21.4 \%$ | $I 9.6 \%$ | $20.5 \%$ | $0.7 \%$ | $0.9 \%$ | $0.8 \%$ |
| Primary 2 | $77.9 \%$ | $79.5 \%$ | $78.7 \%$ | $I 4.6 \%$ | $I 2.7 \%$ | $I 3.7 \%$ | $7.1 \%$ | $6.0 \%$ | $6.6 \%$ |
| Primary 3 | $78.3 \%$ | $81.2 \%$ | $79.7 \%$ | $I 3.3 \%$ | $I I .2 \%$ | $I 2.3 \%$ | $6.3 \%$ | $5.0 \%$ | $5.6 \%$ |
| Primary 4 | $80.4 \%$ | $83.8 \%$ | $82.1 \%$ | $I 3.3 \%$ | $I I .3 \%$ | $I 2.3 \%$ | $7.1 \%$ | $5.2 \%$ | $6.1 \%$ |
| Primary 5 | $79.6 \%$ | $83.6 \%$ | $81.6 \%$ | $I 4.8 \%$ | $13.3 \%$ | $I 4.0 \%$ | $8.8 \%$ | $8.4 \%$ | $8.6 \%$ |
| Primary 6 | $76.4 \%$ | $78.3 \%$ | $77.4 \%$ | $I .5 \%$ | $I .5 \%$ | $I .5 \%$ |  |  |  |

The high rate of repetition is observed in primary I at the rate of $20.5 \%$ and in primary 5 at the rate of $14.0 \%$. The high rate of dropout is observed in primary 6 at $8.6 \%$ and primary 2 at $6.6 \%$. Evidence from EICV 5, shows that, poor health (44.6\%) and family circumstances (25.2\%) emerged as the core factors causing absenteeism in primary school. Considering the link between repetition, drop out and absenteeism there is a need of improving health of students and sensitize parents on the impact of family conflict on the overall learning of their children.

Table 3.1I: Primary GER and NER from 2016 to 2018

| Indicator/Year | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Gross Enrolment Rate (Overall) | $\mathbf{1 3 9 . 6 0 \%}$ | $\mathbf{1 3 9 . 1} \%$ | $\mathbf{I 3 7 . 5 \%}$ |
| GER Male | $\mathbf{1 4 0 . 1 0 \%}$ | $\mathbf{1 4 0 . 1 \%}$ | $\mathbf{1 3 9 . 0 \%}$ |
| GER Female | $\mathbf{1 3 9 . 2 0 \%}$ | $\mathbf{1 3 8 . 2 \%}$ | $\mathbf{1 3 6 . 1 \%}$ |
| Net Enrolment Rate (Overall) | $\mathbf{9 7 . 7 \%}$ | $\mathbf{9 8 . 0 \%}$ | $\mathbf{9 8 . 3 \%}$ |
| NER Male | $97.3 \%$ | $97.8 \%$ | $98.0 \%$ |
| NER Female | $98.0 \%$ | $98.1 \%$ | $98.5 \%$ |

The table 3.II shows that the actual GER is $137.5 \%$ in 2018 while the ESSP target (I35.3\%) was not achieved, the GER exceeding $100 \%$ shows the presence of over-aged and under-aged children compared to the official school-entrance age in primary. The Net Enrolment Rate has increased from $98.0 \%$ in 2017 to $98.3 \%$ in 2018.The ESSP target (98.1\%) was achieved. NER for both boys and girls improved at the rate of $0.2 \%$ and $0.4 \%$ respectively.

Table 3.12: Primary GIR and NIR from 2016 to 2018

| Indicator/Year | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Gross Intake Rate in P I (Overall) | $\mathbf{1 4 2 . 6 \%}$ | $\mathbf{1 2 0 . 7} \%$ | $\mathbf{1 3 8 . 2} \%$ |
| GIR_PI Male | $\mathbf{I 4 7 . 2 \%}$ | I24.2\% | $\mathbf{I 4 2 . 8 \%}$ |
| GIR_PI Female | $138.0 \%$ | $117.1 \%$ | $133.7 \%$ |
| Net Intake Rate in P I (Overall) | $\mathbf{7 8 . 3 \%}$ | $\mathbf{7 9 . 5 \%}$ | $\mathbf{8 0 . 0 \%}$ |
| NIR_PI Male | $80.4 \%$ | $81.7 \%$ | $81.9 \%$ |
| NIR_PI Female | $76.1 \%$ | $77.3 \%$ | $78.1 \%$ |
| Gross Intake Rate in P6 (Overall) | $\mathbf{6 5 . 2 \%}$ | $\mathbf{7 9 . 3 \%}$ | $\mathbf{8 2 . 9 \%}$ |
| GIR_P6 Male | $59.3 \%$ | $72.3 \%$ | $76.1 \%$ |
| GIR_P6 Female | $71.1 \%$ | $86.2 \%$ | $89.6 \%$ |
| Net Intake Rate in P6 (Overall) | $\mathbf{1 4 . 8 \%}$ | $\mathbf{1 9 . 6 \%}$ | $\mathbf{2 2 . 2 \%}$ |
| NIR_P6 Male | $12.9 \%$ | $17.1 \%$ | $19.4 \%$ |
| NIR_P6 Female | $16.7 \%$ | $22.0 \%$ | $25.1 \%$ |

The table 3.12 shows the gross intake and net intake rates for PI and P6 disaggregated by gender. The gross intake rate for PI has shown considerable increase from $120.7 \%$ to $138.2 \%$ from 2017 to 2018 . This is an impact of the over-age attendance in primary schools. The net intake rate in PI increased from $79.5 \%$ to $80.0 \%$ in the same period but the ESSP target of $81.3 \%$ was not achieved. The Gross Intake Rate (GIR) in Primary 6 increased from $79.3 \%$ to $82.9 \%$. Here, the ESSP target (80.8\%) has been achieved. The net intake rate in P6 increased from 19.6\% to 22.2\%.

Figure 3.2: Distribution of Primary pupils by age and sex in 2018


As shown in the above pyramid, there is a low a school attendance under seven years since those are still in nursery level, higher within 7-I3 years and become low above since at that age they join the lower secondary level.

Table 3.13: Transition rate from Primary to Lower secondary from 2016 to 2018

| Indicator/Year | $\mathbf{2 0 1 5 / 1 6}$ | $\mathbf{2 0 1 6 / 1 7}$ | $\mathbf{2 0 1 7 / 1 8}$ |
| :--- | :--- | :--- | ---: |
| Transition rate (Overall) | $\mathbf{7 1 . 1 \%}$ | $\mathbf{7 4 . 5 \%}$ | $\mathbf{7 1 . 6 \%}$ |
| TR Male | $72.0 \%$ | $75.4 \%$ | $72.3 \%$ |
| TR Female | $70.4 \%$ | $73.7 \%$ | $71.0 \%$ |

The transition rate decreased from $74.5 \%$ in $2016 / 2017$ to $71.6 \%$ in $2017 / 2018$. While the ESSP target was to achieve ( $77 \%$ ), measures should be taken to improve the transition rate from primary to secondary education. The transition rate decreased for both females and males.

Table 3.14: Newly admitted in PI pupils of which attended Nursery in 2017 and 2018

| DESCRIPTION/YEAR | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: |
| Number of newly admitted pupils in PI | $\mathbf{3 6 2 , 7 0 6}$ | $\mathbf{4 1 5 , 9 2 I}$ |
| Male | $\mathbf{I 8 5 , 9 1 6}$ | 213,932 |
| Female | $\mathbf{1 7 6 , 7 9 0}$ | 201,989 |
| Number of newly admitted pupils in PI of which attended <br> Nursery | $\mathbf{1 0 1 , 9 1 2}$ | $\mathbf{1 9 8 , 5 0 0}$ |
| Male | $5 I, 050$ | $\mathbf{I 0 I , 5 3 6}$ |
| Female | 50,862 | 96,964 |
| \% of newly admitted pupils in PI of which attended Nursery | $\mathbf{2 8 . 1 \%}$ | $\mathbf{4 7 . 7 \%}$ |
| Male | $27.5 \%$ | $47.5 \%$ |
| Female | $28.8 \%$ | $48.0 \%$ |

This table shows that the number of primary school's pupils newly admitted in 2018 in PI is 415,92 I of which attended Nursery for both boys and girls is 198,500 (47.7\%). This indicates that 62.3\% of newly admitted in PI did not attend Nursery.

Table 3.15: Number of enrolled refugees in primary education in 2018

| Description/Year | $\mathbf{2 0 1 8}$ |
| :--- | ---: |
| Total Refugee Students | $\mathbf{2 7 , 1 1 9}$ |
| Male | 13,883 |
| Female | 13,236 |
| \% of Male | $51.2 \%$ |
| \% of Female | $48.8 \%$ |
| Refugee Students in Public schools | $\mathbf{1 7 , 6 9 6}$ |
| Male | 9,207 |
| Female | 8,489 |
| Refugee Students in Government aided schools | $\mathbf{7 , 9 3 5}$ |
| Male | 3,937 |
| Female | 3,998 |
| Refugee Students in Private schools | $\mathbf{1 , 4 8 8}$ |
| Male | 739 |
| Female | 749 |

The big number of refugee students in primary education is enrolled in public schools with 65\% of the total refugees in that level. As shown in the table3.15 Male refugees' proportion is higher than female.

The government of Rwanda committed to integrate refugee children into the national education system. The integration of refugees means attending along with Rwandan students, following the same national curriculum and taught by the same teachers.

In 2018, $85.2 \%$ of refugee students in primary are /integrated to the Rwanda education system: fully integration has been achieved for Mahama, Kigeme, Mugombwa and Nyabiheke camp while the percentage of integration for Gihembe is at $54.3 \%$. Kiziba camp has not yet started with the integration due to the lack of national school nearby, Therefore, classes have been constructed inside the camp to accommodate both nationals and refugees.

### 3.3 Primary school staff

Table 3.16: Primary school staff from 2016 to 2018

| INDICATOR/YEAR | $\mathbf{2 0 I 6}$ | $\mathbf{2 0 I 7}$ | $\mathbf{2 0 I 8}$ |
| :--- | ---: | ---: | ---: |
| School staff | $\mathbf{4 3 , 5 5 8}$ | $\mathbf{4 3 , 9 0 6}$ | $\mathbf{4 4 , 5 4 4}$ |
| Male | $20, \mathrm{I72}$ | 20,374 | 20,539 |
| Female | 23,386 | 23,532 | 24,005 |
| \% of Male | $46.3 \%$ | $46.4 \%$ | $46.1 \%$ |
| \% of Female | $53.7 \%$ | $53.6 \%$ | $53.9 \%$ |
| Teaching staff | $\mathbf{4 0 , 5 4 9}$ | $\mathbf{4 I , 5 7 3}$ | $\mathbf{4 2 , 0 7 3}$ |
| Male | 18,285 | 18,898 | 18,990 |
| Female | 22,264 | 22,675 | 23,083 |
| \% of Male | $45.1 \%$ | $45.5 \%$ | $45.1 \%$ |
| \% of Female | $54.9 \%$ | $54.5 \%$ | $54.9 \%$ |
| Administrative staff | $\mathbf{2 , 2 2 7}$ | $\mathbf{2 , 3 3 3}$ | $\mathbf{2 , 4 7 I}$ |
| Male | $\mathrm{I}, 424$ | $\mathrm{I}, 476$ | $\mathrm{I}, 549$ |
| Female | 803 | 857 | 922 |
| \% of Male | $63.9 \%$ | $63.3 \%$ | $62.7 \%$ |
| \% of Female | $36.1 \%$ | $36.7 \%$ | $37.3 \%$ |
| Qualified Staff | $\mathbf{4 2 , 7 7 6}$ | $\mathbf{4 3 , I 2 9}$ | $\mathbf{4 3 , 9 4 I}$ |
| Qualified Male Staff | 19,709 | 19,898 | $20,16 \mathrm{I}$ |
| Qualified Female Staff | 23,067 | $23,23 \mathrm{I}$ | 23,780 |
| \% of Qualified Staff | $98.2 \%$ | $98.2 \%$ | $98.6 \%$ |
| \% of Qualified Male Staff | $97.7 \%$ | $97.7 \%$ | $98.2 \%$ |
| \% Qualified Female Staff | $98.6 \%$ | $98.7 \%$ | $99.1 \%$ |
| Trained Staff | $\mathbf{4 0 , 2 9 I}$ | $\mathbf{4 0 , 6 5 I}$ | $\mathbf{4 I , 7 0 5}$ |


| INDICATOR/YEAR | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Trained Male Staff | 18,475 | 18,647 | 19,047 |
| Trained Female Staff | 21,816 | 22,004 | 22,658 |
| \% of Trained Staff | $92.5 \%$ | $92.6 \%$ | $93.6 \%$ |
| \% of Trained Male Staff | $91.6 \%$ | $91.5 \%$ | $92.7 \%$ |
| \% Trained Female Staff | $93.3 \%$ | $93.5 \%$ | $94.4 \%$ |
| Pupils: Teacher Ratio | $\mathbf{5 8}$ | $\mathbf{5 8}$ | $\mathbf{5 6}$ |
| Pupils: Qualified Teacher Ratio | $\mathbf{5 9}$ | $\mathbf{5 9}$ | $\mathbf{5 7}$ |
| Pupils: Trained Teacher Ratio | $\mathbf{6 3}$ | $\mathbf{6 2}$ | $\mathbf{6 0}$ |

The table above indicates that the number of total school staff increased from 43,906 in 2017 to 44,544 in 2018 and this represents $1.4 \%$, among them 42,073 are teaching staff and $2,47 \mathrm{I}$ are administrative staff. Among the teaching staff, $93.6 \%$ are trained to teach in primary schools. The pupil-teacher ratio is $56: 1$ and the pupil-trained teacher ratio is $60: 1$, the ESSP target ( $61: 1$ ) was achieved. The Pupil: Qualified teacher ratio ESSP target (58:I) has been achieved

Table 3.17: Primary school staff from 2016 to 2018 by school's status

| Description/Year | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Total school staff | $\mathbf{4 3 , 5 5 8}$ | $\mathbf{4 3 , 9 0 6}$ | $\mathbf{4 4 , 5 4 4}$ |
| Male | 20,172 | 20,374 | 20,539 |
| Female | 23,386 | 23,532 | 24,005 |
| Staff in Public schools | $\mathbf{1 2 , 1 0 2}$ | $\mathbf{1 2 , 3 2 9}$ | $\mathbf{1 2 , 4 9 9}$ |
| Male | 5,879 | 5,925 | 5,928 |
| Female | 6,223 | 6,404 | 6,571 |
| Staff in Government aided schools | $\mathbf{2 6 , 9 3 4}$ | $\mathbf{2 6 , 9 8 8}$ | $\mathbf{2 7 , 1 5 5}$ |
| Male | 11,671 | 11,633 | 11,610 |
| Female | 15,263 | 15,355 | 15,545 |
| Staff in Private schools | $\mathbf{4 , 5 2 2}$ | $\mathbf{4 , 5 8 9}$ | $\mathbf{4 , 8 9 0}$ |
| Male | 2,622 | 2,816 | 3,001 |
| Female | 1,900 | 1,773 | 1,889 |

Among 44,544 school staff 12,499 (28.0\%) are in public schools, 27,155 (60.9\%) in government aided school and 4,890 (I0.9\%) in private schools.

Table 3.18: Number of Primary school staff in 2018 by status

| Status | Teaching staff |  | Administrative <br> staff |  | Total |  |  |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | Male | Female | Male | Female | Male | Female | Total |
| Public | 5,589 | $6,44 \mathrm{I}$ | 339 | 130 | 5,928 | $6,57 \mathrm{I}$ | 12,499 |
| Government aided | 10,869 | 15,169 | 74 I | 376 | 11,610 | 15,545 | 27,155 |
| Private | 2,532 | 1,473 | 469 | 416 | 3,001 | 1,889 | 4,890 |
| Total | $\mathbf{1 8 , 9 9 0}$ | $\mathbf{2 3 , 0 8 3}$ | $\mathbf{1 , 5 4 9}$ | $\mathbf{9 2 2}$ | $\mathbf{2 0 , 5 3 9}$ | $\mathbf{2 4 , 0 0 5}$ | $\mathbf{4 4 , 5 4 4}$ |

The teaching staff represent $94.4 \%$ of the school staff while the administrative staff represents $5.6 \%$. Among the teaching staff, 12,030 (28.6\%) are in public schools, 26,038 (61.9\%) in government aided and 4,005 ( $9.5 \%$ ) in private schools. The administrative staff in public schools are 469 ( $18.9 \%$ ) while they are $1,117(45.2 \%$ ) in government aided schools and 885 (35.8\%) in private schools.

### 3.4 ICT, science and technology in primary schools

Table 3.19: ICT, science and technology in primary schools for 2016 and 2018

| INDICATOR/YEAR | 2016 | 2017 | 2018 |
| :---: | :---: | :---: | :---: |
| Number of schools with computers | 1,869 | 1,991 | 2,195 |
| \% of school with computers | 65.8\% | 69.2\% | 75.5\% |
| Number of computers | 186,715 | 242,407 | 250,038 |
| Computers for students | 189,090 | 234,409 | 243,494 |
| Computers for administration | 2,008 | 3,175 | 3,694 |
| Computers for teachers | 6,213 | 4,823 | 2,850 |
| Computers per users | 13 | 11 | 10 |
| Ratio students per computer | 13 | 11 | 10 |
| Ratio administrative staff per computer | 1 | 1 | 1 |
| Ratio Teaching staff per Computer | 7 | 9 | 15 |
| Number of schools with internet connectivity | 278 | 723 | 873 |
| \% of school with internet connectivity | 9.8\% | 25.1\% | 30.0\% |
| Number of schools having ICT for teaching and learning | - | 1,267 | 1,612 |
| \% of school having ICT for teaching and learning | - | 44.0\% | 55.4\% |
| Number of Primary schools with sciences Kits | 994 | 1,065 | 1,065 |
| \% of school with sciences Kits | 35\% | 37.0\% | 34.4\% |
| Number of ICT qualified teachers |  | 3,824 | 3,828 |

The percentage of schools with computers increased from $69.2 \%$ in 2017 to $75.5 \%$ in 2018 , the ESSP target (72.04) was achieved and the number of computers increased from 242,407 in 2076 to 250,038 in 2018 . The student-computer ratio is $10: 1$. The ESSP $\operatorname{target}(10: 1)$ is achieved, while the administrative staff - computer ratio is I:I and the teaching staff- computer ratio is I5:I. The school with internet connectivity increased from $25.1 \%$ in 2017 to $30.0 \%$ in 2018 while the ESSP target was $35.6 \%$, the access to internet connectivity should be increased in primary education . The number of schools having ICT for teaching and learning increased from $44.0 \%$ to $55.4 \%$ while the number of schools with science kits decreased from $37.0 \%$ to $34.4 \%$ during the same period. The ESSP target was to achieve $41 \%$ of primary schools with sciences kits. Therefore, the target was not achieved

### 3.5 Books and textbooks in primary schools

Table 3.20: Books in use in primary schools by grade and subject in 2018

| Number of books |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Level | P I | P2 | P3 | P4 | P5 | P6 | Total |
| Kinyarwanda | 650,145 | 536,332 | 254,347 | 134,044 | 124,437 | 95,139 | 1,794,444 |
| English | 591,215 | 595,540 | 285,757 | 275,062 | 168,522 | 123,656 | 2,039,752 |
| Mathematics | 316,984 | 283,355 | 223,437 | 196,093 | 171,711 | 127,035 | 1,318,615 |
| SRS ${ }^{3}$ | 223,156 | 212,758 | 165,071 | 148,223 | 136,870 | 106,990 | 993,068 |
| SET ${ }^{4}$ | 100,545 | 114,099 | 86,614 | 121,502 | 112,76\| | 100,236 | 635,757 |
| Pupil: book ratio |  |  |  |  |  |  |  |
| Level | P I | P2 | P3 | P4 | P5 | P6 | Overall |
| Kinyarwanda | 1 | 1 | 2 | 3 | 3 | 3 | 1 |
| English | 1 | 1 | 2 | 2 | 2 | 2 | 1 |
| Mathematics | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| SRS | 2 | 2 | 3 | 3 | 3 | 2 | 3 |
| SET | 5 | 4 | 5 | 4 | 3 | 3 | 4 |

Overall, Social Studies and Elementary Science and Technology textbooks seem to be in short supply across grades ( 3 pupils per textbook and 4 pupils per textbook respectively). This do not meet the ESSP recommended standard of 2 pupils per textbook. However, for Kinyarwanda, Mathematics and English, the overall pupils-book ratio was achieved in accordance with the ESSP recommendation.

Table 3.21: Number of student's CBC textbooks in use in the primary schools in 2018

| Number of books |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Level | P I | P2 | P3 | P4 | P5 | P6 | Total |
| Kinyarwanda | 228,446 | 188,594 | 100,903 | 55,879 | 65,688 | 52,215 | 691,725 |
| English | 185,677 | 185,046 | 97,091 | 103,662 | 75,448 | 50,804 | 697,728 |
| Mathematics | 104,980 | 94,059 | 89,859 | 58,472 | 63,678 | 51,566 | 462,614 |
| SRS | 83,035 | 93,247 | 83,775 | 55,382 | 66,874 | 53,389 | 435,702 |
| SET | 79,226 | 86,627 | 77,958 | 55,433 | 57,358 | 47,239 | 403,84I |
| Pupil: book ratio |  |  |  |  |  |  |  |
| Level | P I | P2 | P3 | P4 | P5 | P6 | Overall |
| Kinyarwanda | 2 | 2 | 4 | 8 | 6 | 5 | 4 |
| English | 3 | 2 | 5 | 4 | 5 | 5 | 4 |
| Mathematics | 5 | 5 | 5 | 7 | 6 | 5 | 5 |
| SRS | 6 | 5 | 5 | 8 | 6 | 5 | 6 |
| SET | 7 | 5 | 6 | 8 | 7 | 6 | 6 |

[^1]CBC textbooks for students are still low. Only Kinyarwanda books for primary I and primary 2 are sufficient while other books in all levels are insufficient.

### 3.6 Source of energy in primary schools

Table 3.22: Source of energy in Primary schools from 2016 to 2018

| INDICATOR/YEAR | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Number of schools with on grid electricity supply | $\mathbf{8 5 3}$ | $\mathbf{I , 6 0 6}$ | $\mathbf{I , 6 9 3}$ |
| \% of school with on grid electricity supply | $30.0 \%$ | $55.8 \%$ | $58.2 \%$ |
| Number of schools with Solar power | $\mathbf{6 3 7}$ | $\mathbf{7 0 9}$ | $\mathbf{6 0 5}$ |
| \% of school with Solar power | $22.4 \%$ | $24.6 \%$ | $20.8 \%$ |
| Number of schools with Electric power generator supply | $\mathbf{1 2 8}$ | $\mathbf{1 3 8}$ | $\mathbf{I 5 9}$ |
| \% of school with Electric power generator supply | $4.5 \%$ | $4.8 \%$ | $5.5 \%$ |
| Number of schools with Biogas system | $\mathbf{1 0}$ | $\mathbf{8}$ | II |
| \% of school with Biogas system | $0.4 \%$ | $0.2 \%$ | $0.4 \%$ |

The number of schools that have any type of energy increased from 2,46I in 2017 to 2,468 in 2018. 58.2\% have on grid electricity supply but the ESSP target of $60.9 \%$ was not achieved, $20.8 \%$ have Solar power, $5.5 \%$ have Electric power generator supplies and $0.4 \%$ have Biogas system

### 3.7 Water and sanitation in primary schools

Table 3.23: Water in primary schools from 2016 to 2018

| INDICATOR/YEAR | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Number of primary schools with improved drinking water |  | $\mathbf{1 , 3 1 0}$ | $\mathbf{1 , 5 5 9}$ |
| \% of primary school with improved drinking water |  | $45.5 \%$ | $53.6 \%$ |
| Number of primary schools with rain water harvesting <br> system | $\mathbf{1 , 4 0 7}$ | $\mathbf{2 , 0 5 I}$ | $\mathbf{2 , 2 2 4}$ |
| \% of primary school with Rain water harvesting system | $49.5 \%$ | $71.3 \%$ | $76.5 \%$ |
| Number of primary schools with tap water supply | $\mathbf{9 5 I}$ | $\mathbf{1 , 5 2 5}$ | $\mathbf{1 , 6 1 7}$ |
| $\%$ of primary schools with tap water supply | $33.5 \%$ | $53.0 \%$ | $55.6 \%$ |
| Number of primary schools with hand washing facilities | $\mathbf{1 , 2 8 6}$ | $\mathbf{1 , 8 6 3}$ | $\mathbf{1 , 9 1 9}$ |
| $\%$ of primary school with hand washing facilities | $45.2 \%$ | $64.8 \%$ | $66.0 \%$ |

The percentage of primary schools with safe drinking water increased to $8.1 \%$ from 2017 to 2018, however the ESSP target ( $56.7 \%$ ) is not yet achieved, this is also remarkable for schools with rain water harvesting system which increased from $71.3 \%$ in 2017 to $76.5 \%$ in 2018 representing an increment of $5.2 \%$ from 2017 to 2018 . An increment of $2.6 \%$ of schools with tap water supply has been also observed from 2017 to 2018 and the hand washing facilities have been increased from $64.8 \%$ to $66.0 \%$ which is below the ESSP target of achieving $69.8 \%$ in 2018

Table 3.24: Toilets in primary schools from 2016 to 2018

| INDICATOR/YEAR | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Number of toilets in the school | $\mathbf{4 8 , 5 9 6}$ | $\mathbf{4 8 , 6 4 9}$ | $\mathbf{5 0 , 4 1 6}$ |
| For female | 24,877 | 24,899 | 25,427 |
| For Male | 23,719 | $23,75 \mathrm{I}$ | 24,989 |
| For students | $\mathbf{4 4 , 5 6 9}$ | $\mathbf{4 4 , 7 0 0}$ | $\mathbf{4 6 , 3 3 3}$ |
| For Female students | 22,842 | 22,896 | $23,39 \mathrm{I}$ |
| For Male students | 21,727 | 21,804 | 22,942 |
| For staff | $\mathbf{4 , 0 2 7}$ | $\mathbf{3 , 9 4 9}$ | $\mathbf{4 , 0 8 3}$ |
| For female staff | 2,035 | 2,003 | 2,036 |
| For Male staff | 1,992 | 1,947 | 2,047 |
| Ratio toilet per users | $\mathbf{5 3}$ | $\mathbf{5 4}$ | $\mathbf{5 I}$ |
| Female | 52 | 52 | 50 |
| Male | 54 | 57 | 55 |
| Students | $\mathbf{5 7}$ | $\mathbf{5 7}$ | $\mathbf{5 4}$ |
| Female students | 56 | 55 | 53 |
| Male students | 59 | 58 | 55 |
| Staff | $\mathbf{I I}$ | $\mathbf{2 7}$ | $\mathbf{1 I}$ |
| Female staff | 1 I | 12 | $\mathbf{1 2}$ |
| Male staff | 10 | 43 | $\mathbf{1 0}$ |

The ratio of toilet per users improved from 57 to 54 for students and from 27 to II for staff.

### 3.8 School feeding program in primary schools

Table 3.25: School feeding program in primary schools from 2016 to 2018

| INDICATOR/YEAR | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Number of primary schools participating in school <br> feeding | $\mathbf{2 3 1}$ | $\mathbf{3 5 7}$ | $\mathbf{3 7 2}$ |
| \% of primary school participating in school feeding | $8 \%$ | $12 \%$ | $13 \%$ |
| Number of schools with nutrition garden | $\mathbf{1 , 1 0 5}$ | $\mathbf{1 , 1 7 3}$ | $\mathbf{1 , 1 7 3}$ |
| \% of school with nutrition garden | $39 \%$ | $41 \%$ | $40 \%$ |
| Number of students fed at school | $\mathbf{1 0 4 , 9 4 4}$ | $\mathbf{1 8 3 , 3 1 0}$ | $\mathbf{1 8 3 , 8 5 7}$ |

The number of primary schools participating in school feeding increased from 357 in 2017 to 372 in 2018. The number of schools with nutrition garden decreased to $1 \%$ from 2017 to 2018.

The number of students receiving meals/ milk at schools remained almost the same changing a bit from 183,310 in 2017 to 183,857 in 2018 representing $7.3 \%$ of the total students in primary school. This percentage still low compared to all students enrolled in primary schools. More efforts and investment should be undertaken to achieve the objective of universal primary school feeding.

### 3.9 Special need education in primary schools

Table 3.26: Special need education in primary schools from 2016 to 2018

| INDICATOR/YEAR | 2016 | 2017 | 2018 |
| :---: | :---: | :---: | :---: |
| Number of schools with adapted infrastructure and materials for students with disabilities | - | 522 | 684 |
| \% of school with adequate infrastructure for Disabilities | - | 18\% | 24\% |
| Number of students with disability enrolled in primary | 19,1 18 | 24,980 | 17,133 |
| Male | 10,639 | 13,317 | 9,669 |
| Female | 8,479 | 11,663 | 7,464 |
| \% of Male | 55.6\% | 53\% | 56.4\% |
| \% of Female | 44.4\% | 47\% | 43.6\% |
| Number of teachers trained in special needs and inclusive education | 1,286 | 1,492 | 4,102 |
| Male | 532 | 762 | 1,912 |
| Female | 754 | 730 | 2,190 |
| \% of Male | 41.4\% | 51.1\% | 46.6\% |
| \% of Female | 58.6\% | 48.9\% | 53.4\% |

The number of primary schools with adequate infrastructure for disabilities is 684 that represents $24 \%$, this is shows that the ESSP target ( $21 \%$ ) was achieved. The number of teachers trained in special needs and inclusive education is 4,102 .

Table 3.27: Primary school pupils with disability in 2018

| Type of disability/Level | P I | P 2 | P3 | P 4 | P 5 | P 6 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Hearing | 371 | 241 | 235 | 210 | 222 | 172 | I,45I |
| Visual | 495 | 432 | 481 | 473 | 434 | 451 | 2,766 |
| Speaking | 649 | 351 | 280 | 176 | 134 | 87 | 1,677 |
| Hearing and speaking | 245 | 178 | 155 | 155 | 136 | 135 | 1,004 |
| Physical | 1,225 | 1,080 | I, 128 | 1,089 | 998 | 806 | 6,326 |
| Learning | 911 | 630 | 450 | 359 | 310 | 176 | 2,836 |
| Multiple disabilities | 348 | 256 | 169 | 106 | 107 | 87 | 1,073 |
| Total | 4,244 | 3,168 | 2,898 | 2,568 | 2,341 | 1,914 | 17,133 |

The table 3.26 shows that 17,133 pupils with disabilities out of $2,503,705$ are enrolled in primary schools and this represents $0.7 \%$ of pupils enrolled in primary schools. Physical disabilities seem to be the category with the largest representation with 6,326 pupils (36. $9 \%$ ).It should adequate infrastructures to facilitate those disable to be comfort at school and to pursue their studies

Table 3.28: Primary school pupils with disability by grades in 2017 and 2018

| Level | 2017 |  |  | 2018 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | Total | Male | Female | Total |
| Primary 1 | 2,809 | 2,052 | 4,861 | 2,508 | 1,736 | 4,244 |
| Primary 2 | 2,194 | 1,673 | 3,867 | 1,834 | 1,334 | 3,168 |
| Primary 3 | 1,934 | 1,587 | 3,521 | 1,693 | 1,205 | 2,898 |
| Primary 4 | 2,000 | 1,692 | 3,692 | 1,394 | I,174 | 2,568 |
| Primary 5 | 2,006 | 2,025 | 4,031 | 1,270 | 1,071 | 2,34I |
| Primary 6 | 2,374 | 2,634 | 5,008 | 970 | 944 | 1,914 |
| Total | 13,317 | 1 1,663 | 24,980 | 9,669 | 7,464 | 17,133 |

The number of pupils with disability enrolled in primary schools decreased from 24,980 in 2017 to 17,133 for both male and female pupils.

## 4 SECONDARY EDUCATION

This section provides overview of secondary education statistics, highlighting trends from 2016 to 2018. The official age for this level is between 13 and 18. The lower secondary which last three years is equivalent to ISCED 2 while other three years dedicated for Upper secondary is equivalent to ISCED 34 (for general upper secondary: sciences, humanities and languages) and ISCED 35 (for vocational upper secondary composed by TVET levell to 5 and TTC).

## 4.I Secondary school infrastructure

Table 4.I: Number of secondary schools from 2016 to 2018 by schools' status

| School year | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Total | $\mathbf{1 , 5 7 5}$ | $\mathbf{1 , 5 6 7}$ | $\mathbf{1 , 7 2 8}$ |
| Public | 460 | 461 | 522 |
| Government aided | 862 | 871 | 892 |
| Private | 253 | 235 | 314 |
| Average students per school | $\mathbf{3 5 2}$ | $\mathbf{3 7 8}$ | $\mathbf{3 7 8}$ |
| Public | 376 | 405 | 403 |
| Government aided | 350 | 381 | 408 |
| Private | 313 | 314 | 250 |

The table 4.I shows that there is an increase of schools from 2016 to 2018 in public, government aided and private. Nevertheless, the increase of schools is not directly proportional to the number of students where in public and private, number of students decreased.
The increase of schools is the result of Government investment in school construction. The table also shows that private share is still low, there is a suggestion of sensitize private and encourage them to increase the enrolment of students.

Table 4.2: Number of secondary schools by settings from 2016 to 2018

| Schools by Settings | 2016 | 2017 | 2018 |
| :---: | :---: | :---: | :---: |
| Total schools | 1,575 | 1,567 | 1,728 |
| Primary+ O' level | 558 | 565 | 561 |
| Primary +O\&A level | 491 | 491 | 492 |
| O' level only | 31 | 33 | 54 |
| A' level only | 197 | 187 | 313 |
| O\&A level | 298 | 291 | 308 |
| Percentages | 100\% | 100\% | 100\% |
| Primary+ O' level | 35.4\% | 36.1\% | 32.5\% |
| Primary +O\&A level | 31.2\% | 31.3\% | 28.5\% |
| O' level only | 2.0\% | 2.1\% | 3.1\% |
| A' level only | 12.5\% | 11.9\% | 18.1\% |
| O\&A level | 18.9\% | I8.6\% | 17.8\% |

The table 4.4 shows the number of schools by settings where it is observed that Primary +O ' level setting has the highest number of schools: $35.4 \%, 36.1 \%$ and $32.5 \% \%$ followed by Primary +O\&A level with $31.2 \%, 31.3 \%$ and $28.5 \%$ in 2016,2017 and 2018 respectively comparatively to other settings. Nine Year Basic Education which was launched in 2009 and after by, Twelve Year Basic Education since 2012 were established to increase the access in Basic Education. Many schools in those two settings were constructed and this justify their highest increment.

Table 4.3: Number of secondary schools by owner from 2016 to 2018

| School by Owner | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Total schools | $\mathbf{I , 5 7 5}$ | $\mathbf{1 , 5 6 7}$ | $\mathbf{I , 7 2 8}$ |
| Government | 460 | 46 I | 524 |
| Catholic | 620 | 632 | 66 I |
| Protestant | 279 | 288 | 314 |
| 7th Day Adventist | 22 | 21 | 19 |
| Islamic | 16 | 15 | 17 |
| Parents associations | 106 | 102 | 104 |
| Individuals/NGOs | 72 | 48 | 89 |
| Percentages | $\mathbf{1 0 0 \%}$ | $\mathbf{1 0 0 \%}$ | $\mathbf{1 0 0 \%}$ |
| Government | $29.2 \%$ | $29.4 \%$ | $30.3 \%$ |
| Catholic | $39.4 \%$ | $40.3 \%$ | $38.3 \%$ |
| Protestant | $\mathbf{I 7 . 7 \%}$ | $\mathbf{I 8 . 4 \%}$ | $\mathbf{I 8 . 2 \%}$ |
| 7th Day Adventist | $1.4 \%$ | $1.3 \%$ | $1.1 \%$ |
| Islamic | $1.0 \%$ | $1.0 \%$ | $1.0 \%$ |
| Parents associations | $6.7 \%$ | $6.5 \%$ | $6.0 \%$ |
| Individuals/NGOs | $4.6 \%$ | $3.1 \%$ | $5.2 \%$ |

Table 4.5 illustrates that those Catholic schools represents $38.3 \%$ which is higher percentage compared to others and followed by government schools with $30.3 \%$. Islam and Seventh Day

Adventist owns fewer schools with representation of I.0\% and I.I\% respectively. Their role in education is still to be appreciated but it also needs to be increased.
Individuals/NGOs and parent's associations must be encouraged to construct more schools.

Table 4.4: Number of secondary school classrooms from 2016 to 2018 by schools 'status

| School status | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Total Classrooms | $\mathbf{1 6 , 7 9 7}$ | $\mathbf{1 7 , 0 8 I}$ | $\mathbf{1 7 , 9 7 2}$ |
| Public | 5,110 | 5,269 | 5,718 |
| Government aided | 9,086 | 9,312 | 9,566 |
| Private | 2,601 | 2,500 | 2,688 |
| Average students per Classroom | $\mathbf{3 3}$ | $\mathbf{3 5}$ | $\mathbf{3 6}$ |
| Public | 34 | 35 | 37 |
| Government aided | 33 | 36 | 38 |
| Private | 30 | 30 | 29 |

Table 4.2 illustrates that classrooms in public, government aided, and private schools increased from 2016 to 2018 . This increment did not affect the average of students per classroom because the average still increased except in private where it decreased from 30 in 2017 to 29 in 2018.

2018 average pupils per classroom in secondary


Map 4.I: Average pupils per classrooms in secondary schools

Though the overall national average of pupils per classroom stand at 36, it varies between 30 to 42 when calcurated at distct level. Nyamasheke records the highest ratio (42), while Gakenke records the lowest (30).

Table 4.5: Number of secondary school desks from 2016 to 2018 by status

| Status | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Total desks | $\mathbf{2 7 3 , 8 9 4}$ | $\mathbf{2 6 6 , 6 5 I}$ | $\mathbf{2 7 2 , 2 8 5}$ |
| Public | 82,215 | 81,253 | 87,023 |
| Government aided | 148,518 | 144,423 | 146,608 |
| Private | 43,161 | 40,975 | 38,654 |
| Average Pupils per desk | $\mathbf{2}$ | $\mathbf{2}$ | $\mathbf{2}$ |
| Public | 2 | 2 | 2 |
| Government aided | 2 | 2 | 2 |
| Private | 2 | 2 | 2 |

Number of desks increased in public and government aided schools only according to the table 4.3. In private schools, the number decreased. This is interpreted that private schools increased number of schools and classrooms and did not increase desks. However, this situation did not affect the average of students per desk (2:I) which is the standard.

### 4.2 Secondary school students

Table 4.6: Number of students in secondary schools from 2016 to 2018

| Description/Year | 2016 | 2017 | 2018 |
| :---: | :---: | :---: | :---: |
| Total Students | 553,739 | 592,501 | 658,285 |
| Male | 260,679 | 276,437 | 308,367 |
| Female | 293,060 | 316,064 | 349,918 |
| \% of Male | 47.1\% | 46.7\% | 46.8\% |
| \% of Female | 52.9\% | 53.3\% | 53.2\% |
| Students in Public schools | 173,109 | 186,914 | 212,250 |
| Male | 83,457 | 89,354 | 102,414 |
| Female | 89,652 | 97,560 | 109,836 |
| Students in Government aided schools | 301,554 | 331,712 | 364,096 |
| Male | 136,108 | 148,362 | 162,963 |
| Female | 165,446 | 183,350 | 201,133 |
| Students in Private schools | 79,076 | 73,875 | 81,939 |
| Male | 41,114 | 38,72 I | 42,990 |
| Female | 37,962 | 35,154 | 38,949 |

The table 4.6 above shows that there is an increase of students from 553,739 in 2016 to 658,285 in 2018. The highest increase of students $(32,384)$ is seen in government-aided schools when 2017 and 2018 years are to be compared. This increase is the result of school construction. Financing in school construction will pay a crucial role in increase the access.

Table 4.7: Number of lower secondary students from 2016 to 2018

| Description/Year | 2016 | 2017 | 2018 |
| :---: | :---: | :---: | :---: |
| Total Students | 346,783 | 382,661 | 422,093 |
| Male | 161,144 | 176,797 | 194,314 |
| Female | 185,639 | 205,864 | 227,779 |
| \% of Male | 46.5\% | 46.2\% | 46.0\% |
| \% of Female | 53.5\% | 53.8\% | 54.0\% |
| Students in Public schools | 113,686 | 125,053 | 138,482 |
| Male | 53,876 | 58,857 | 64,617 |
| Female | 59,810 | 66,196 | 73,865 |
| Students in Government aided schools | 206,984 | 232,874 | 258,660 |
| Male | 93,313 | 104,640 | 116,232 |
| Female | 113,671 | 128,234 | 142,428 |
| Students in Private schools | 26,113 | 24,734 | 24,95 I |
| Male | 13,955 | 13,300 | 13,465 |
| Female | 12,158 | 11,434 | 11,486 |

Lower secondary schools increased from 2016 to 2018 in both public, government aided and private schools and both males and females. Number of females is the highest with $54.0 \%$ while males represents $46.0 \%$. The increase of schools in lower secondary was due to the construction of 9 YBE/I2YBE schools. More 9 YBE/I2YBE are still needed for the increase of enrolment by decentralisation of education service to be accessible by many Rwandans. The GPI is 1.17 while the set target was I. 06 in 2018. This shows that there a high enrolment of girls than boys in lower secondary schools.

Table 4.8: Number of upper secondary students from 2016 to 2018

| Description/Year | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Total Students | $\mathbf{2 0 6 , 9 5 6}$ | $\mathbf{2 0 9 , 8 4 0}$ | $\mathbf{2 3 6 , 1 9 2}$ |
| Male | 99,535 | 99,640 | 114,053 |
| Female | $107,42 \mathrm{I}$ | 110,200 | 122,139 |
| \% of Male | $48.1 \%$ | $47.5 \%$ | $48.3 \%$ |
| \% of Female | $51.9 \%$ | $52.5 \%$ | $51.7 \%$ |
| Students in Public schools | $\mathbf{5 9 , 4 2 3}$ | $\mathbf{6 I , 8 6 I}$ | $\mathbf{7 3 , 7 6 8}$ |
| Male | 29,581 | 30,497 | 37,797 |
| Female | 29,842 | 31,364 | $35,97 \mathrm{I}$ |
| Students in Government aided schools | $\mathbf{9 4 , 5 7 0}$ | $\mathbf{9 8 , 8 3 8}$ | $\mathbf{1 0 5 , 4 3 6}$ |
| Male | 42,795 | 43,722 | 46,731 |
| Female | 51,775 | 55,116 | 58,705 |
| Students in Private schools | $\mathbf{5 2 , 9 6 3}$ | $\mathbf{4 9 , 1 4 1}$ | $\mathbf{5 6 , 9 8 8}$ |
| Male | 27,159 | $25,42 \mathrm{I}$ | 29,525 |
| Female | 25,804 | 23,720 | 27,463 |

The table 4.8 indicates that the number of students in upper secondary education increased in three consecutive years, 2016, 2017 and 2018 both in public, government aided and in private
schools and both males and females. Females' students represent $51.7 \%$, while male represents 48.2\%. Gender strategies and initiatives had positive impact on the enrolment of females. Strengthening the existing policies and strategies is needed to uplift girls' access to education. The GPI is I.07, the target (1.06) in 2018 is not achieved the female enrolment is higher than male in upper secondary schools

Table 4.9: Upper secondary students enrolled in 2018 by learning areas

| Learning areas | Number of students |  |  | Percentage by Sex |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | Total | Male | Female |
| Total Students in upper secondary schools | I 14,053 | 122,139 | 236,192 | 48.3\% | $51.7 \%$ |
| Sciences | 38,022 | 46,620 | 84,642 | 44.9\% | 55.1\% |
| Humanities | 15,267 | 16,633 | 31,900 | 47.9\% | 52.1\% |
| Languages | 13,705 | 17,371 | 31,076 | 44.1\% | 55.9\% |
| TTC | 3,474 | 5,712 | 9,186 | 37.8\% | 62.2\% |
| TVET | 43,585 | 35,803 | 79,388 | 54.9\% | 45.1\% |
| Students in Public schools | 37,797 | 35,971 | 73,768 | 51.2\% | 48.8\% |
| Sciences | 13,601 | 14,873 | 28,474 | 47.8\% | 52.2\% |
| Humanities | 5,280 | 5,245 | 10,525 | 50.2\% | 49.8\% |
| Languages | 5,237 | 5,818 | 11,055 | 47.4\% | 52.6\% |
| TTC | 830 | 1,321 | 2,151 | 38.6\% | 61.4\% |
| TVET | 12,849 | 8,714 | 21,563 | 59.6\% | 40.4\% |
| Students in Government aided schools | 46,73 I | 58,705 | 105,436 | 44.3\% | 55.7\% |
| Sciences | 20,042 | 27,133 | 47,175 | 42.5\% | 57.5\% |
| Humanities | 9,103 | 10,242 | 19,345 | 47.1\% | 52.9\% |
| Languages | 8,347 | 11,364 | 19,711 | 42.3\% | 57.7\% |
| TTC | 2,644 | 4,391 | 7,035 | 37.6\% | 62.4\% |
| TVET | 6,595 | 5,575 | 12,170 | 54.2\% | 45.8\% |
| Students in Private schools | 29,525 | 27,463 | 56,988 | 51.8\% | 48.2\% |
| Sciences | 4,379 | 4,614 | 8,993 | 48.7\% | 51.3\% |
| Humanities | 884 | I,146 | 2,030 | 43.5\% | 56.5\% |
| Languages | 121 | 189 | 310 | 39.0\% | 61.0\% |
| TTC | - | - | - | 0.0\% | 0.0\% |
| TVET | 24,141 | 21,514 | 45,655 | 52.9\% | 47.1\% |

The table 4.9 illustrates that science areas in year 2018 has the highest number of students in both public $(28,479$ out of 73,768$)$ and government aided $(47,175$ out of 105,436$)$ while TVET has the highest number of trainees in Private schools with 45,655 out of 56,988 . TTC schools have few numbers of students with 2,I5I out of 73,768 in Public schools and 7,035 out of 105,436 in government-aided schools. Should however be noticed that TTC courses are not offered in Private schools.

Overall the numbers of females are higher than the numbers of males and this is especially observed in government aided. The number of females is higher in all learning area expect TVET where female represents $45.1 \%$.

Table 4.10: STEM students enrolled in upper secondary from 2016 to 2018

| Description/Year | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Total Students | $\mathbf{1 2 4 , 1 6 7}$ | $\mathbf{1 1 9 , 0 9 2}$ | $\mathbf{1 4 0 , 0 5 6}$ |
| Male | 67,384 | 62,455 | $76,14 \mathrm{I}$ |
| Female | 56,783 | 56,637 | 63,915 |
| \% of Male | $54.3 \%$ | $52.4 \%$ | $54.4 \%$ |
| \% of Female | $45.7 \%$ | $47.6 \%$ | $45.6 \%$ |
| Students in Public schools | $\mathbf{3 6 , 2 4 3}$ | $\mathbf{3 6 , 2 7 4}$ | $\mathbf{4 4 , 7 8 8}$ |
| Male | 19,340 | 18,782 | 24,773 |
| Female | 16,903 | 17,492 | 20,015 |
| Students in Government aided schools | $\mathbf{5 1 , 9 8 8}$ | $\mathbf{5 3 , 6 8 5}$ | $\mathbf{5 8 , 1 0 5}$ |
| Male | 24,845 | 24,504 | 26,749 |
| Female | 27,143 | $29,18 \mathrm{I}$ | 31,356 |
| Students in Private schools | $\mathbf{3 5 , 9 3 6}$ | $\mathbf{2 9 , 1 3 3}$ | $\mathbf{3 7 , 1 6 3}$ |
| Male | 23,199 | 19,169 | 24,619 |
| Female | 12,737 | 9,964 | 12,544 |

Considering the number of students enrolled in STEM as shown in table 4.I0, females' students are still few when compared to male.

Table 4.II: Percentage of STEM students enrolled in upper secondary from 2016 to 2018

| Description/Year | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Total Students | $\mathbf{6 0 . 0 \%}$ | $\mathbf{5 6 . 8 \%}$ | $\mathbf{5 8 . 7} \%$ |
| Male | $67.7 \%$ | $62.7 \%$ | $66.3 \%$ |
| Female | $52.9 \%$ | $51.4 \%$ | $51.6 \%$ |
| Students in Public schools | $\mathbf{6 1 . 0 \%}$ | $\mathbf{5 8 . 6 \%}$ | $\mathbf{6 0 . 0} \%$ |
| Male | $65.4 \%$ | $61.6 \%$ | $64.9 \%$ |
| Female | $56.6 \%$ | $55.8 \%$ | $55.0 \%$ |
| Students in Government aided schools | $\mathbf{5 5 . 0 \%}$ | $\mathbf{5 4 . 3} \%$ | $\mathbf{5 5 . 1} \%$ |
| Male | $58.1 \%$ | $56.0 \%$ | $57.2 \%$ |
| Female | $52.4 \%$ | $52.9 \%$ | $53.4 \%$ |
| Students in Private schools | $\mathbf{6 7 . 9 \%}$ | $\mathbf{5 9 . 3} \%$ | $\mathbf{6 4 . 0} \%$ |
| Male | $85.4 \%$ | $75.4 \%$ | $83.3 \%$ |
| Female | $49.4 \%$ | $42.0 \%$ | $42.9 \%$ |

The table 4.I lindicates percentage of STEM students, by comparing the number of students enrolled in STEM in upper secondary as presented in table 4.11 and the total number of students enrolled in upper secondary as presented in table 4.8. As beforementioned the number of females in STEM still low when compared to that of male, a very big difference is observed in Private
schools. The overall ESSP target of $57.59 \%$ was achieved but when considering gender this target was not achieved for female.

Table 4.12: Number of boarding secondary students from 2016 to 2018

| Description/Year | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Total boarding Students | $\mathbf{1 6 5 , 0 3 8}$ | $\mathbf{1 6 3 , 4 7 9}$ | $\mathbf{1 6 3 , 1 3 5}$ |
| Male | 81,607 | 80,236 | 79,673 |
| Female | $83,43 \mathrm{I}$ | 83,243 | 83,462 |
| \% of Male | $49.4 \%$ | $49.1 \%$ | $48.8 \%$ |
| \% of Female | $50.6 \%$ | $50.9 \%$ | $51.2 \%$ |
| Boarding Students in Public schools | $\mathbf{4 3 , 8 0 5}$ | $\mathbf{4 6 , 1 9 2}$ | $\mathbf{4 6 , 9 1 2}$ |
| Male | 22,457 | 23,934 | 23,875 |
| Female | 21,348 | 22,258 | 23,037 |
| Boarding Students in Government <br> aided schools | $\mathbf{6 5 , 6 7 2}$ | $\mathbf{6 3 , 7 6 3}$ | $\mathbf{6 3 , 4 5 0}$ |
| Male | 30,135 | 28,087 | 27,447 |
| Female | 35,537 | 35,676 | 36,003 |
| Boarding Students in Private schools | $\mathbf{5 5 , 5 6 I}$ | $\mathbf{5 3 , 5 2 4}$ | $\mathbf{5 2 , 7 7 3}$ |
| Male | 29,015 | 28,215 | $28,35 \mathrm{I}$ |
| Female | 26,546 | 25,309 | 24,422 |

The table 4.12 indicates the number of boarding students in secondary schools, between 2017 and 2018 this number hover around 163,00 students. The number of female are greater than that of males for all three years.

Table 4.I3: Lower secondary school student's enrolment by grade in 2017 and 2018

| Grade 2017 | $\mathbf{2 0 1 8}$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | Total | Male | Female | Total |
| Secondary I | $71,44 \mathbf{I}$ | 84,448 | $\mathbf{I 5 5 , 8 8 9}$ | 84,790 | 99,537 | $\mathbf{I 8 4 , 3 2 7}$ |
| Secondary 2 | 58,353 | 67,779 | $\mathbf{I 2 6 , I 3 2}$ | 62,972 | $74,53 \mathbf{I}$ | $\mathbf{I 3 7 , 5 0 3}$ |
| Secondary 3 | 47,003 | 53,637 | $\mathbf{I 0 0 , 6 4 0}$ | 46,552 | $53,7 \mathrm{II}$ | $\mathbf{I 0 0 , 2 6 3}$ |
| TOTAL | $\mathbf{I 7 6 , 7 9 7}$ | $\mathbf{2 0 5 , 8 6 4}$ | $\mathbf{3 8 2 , 6 6 I}$ | $\mathbf{1 9 4 , 3 1 4}$ | $\mathbf{2 2 7 , 7 7 9}$ | $\mathbf{4 2 2 , 0 9 3}$ |

The table 4.13 shows that in grade I, 2 and 3, the number of students increased. Especially females share a big number with 205,864 and 227,779 in 2017 and in 2018 while males are 176,797 and 194,3I4 in 2017 and 2018 respectively.

Table 4.14: Upper secondary ${ }^{5}$ school student's enrolment by grade in 2017 and 2018

| Grade 2017 | $\mathbf{2 0 1 8}$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | Total | Male | Female | Total |
| Secondary 4 | 24,925 | $3 I, 52 I$ | $\mathbf{5 6 , 4 4 6}$ | 27,162 | 33,680 | $\mathbf{6 0 , 8 4 2}$ |
| Secondary 5 | 21,757 | 26,794 | $\mathbf{4 8 , 5 5 I}$ | 23,064 | $28,46 I$ | $\mathbf{5 I , 5 2 5}$ |
| Secondary 6 | 19,566 | 24,153 | $\mathbf{4 3 , 7 1 9}$ | 20,242 | 24,195 | $\mathbf{4 4 , 4 3 7}$ |
| TOTAL | $\mathbf{6 6 , 2 4 8}$ | $\mathbf{8 2 , 4 6 8}$ | $\mathbf{1 4 8 , 7 1 6}$ | $\mathbf{7 0 , 4 6 8}$ | $\mathbf{8 6 , 3 3 6}$ | $\mathbf{1 5 6 , 8 0 4}$ |

The table 4.14 shows that generally, the number of students has increased. In Secondary 4, 5 and 6, the number of females is greater than the number of males. Females enrolled are 82,468 while males are 66,248 in 2017 and 86,336 of females while males are 70,468 in 2018. It is an indication that, provided efforts to sensitize girls, were successful and need to be strengthened.

Table 4.15: Promotion, repetition and dropout rate in secondary schools

| INDICATOR/YEAR | $\mathbf{2 0 1 5 / 1 6}$ | $\mathbf{2 0 1 6 / 1 7}$ | $\mathbf{2 0 1 7 / 1 8}$ |
| :--- | ---: | ---: | ---: |
| Promotion rate | $\mathbf{8 6 . 7 \%}$ | $\mathbf{9 0 . 4 \%}$ | $\mathbf{8 9 . 2 \%}$ |
| Male | $87.2 \%$ | $90.9 \%$ | $89.4 \%$ |
| Female | $86.2 \%$ | $89.9 \%$ | $89.1 \%$ |
| Repetition Rate | $\mathbf{8 . 8} \%$ | $\mathbf{5 . 2 \%}$ | $\mathbf{5 . 0 \%}$ |
| Male | $8.4 \%$ | $5.0 \%$ | $5.3 \%$ |
| Female | $9.1 \%$ | $5.4 \%$ | $4.8 \%$ |
| Dropout Rate | $\mathbf{4 . 5 \%}$ | $\mathbf{4 . 4 \%}$ | $\mathbf{5 . 8 \%}$ |
| Male | $4.1 \%$ | $4.0 \%$ | $5.4 \%$ |
| Female | $4.8 \%$ | $4.7 \%$ | $6.1 \%$ |

It is shown in table 4.15 that the promotion rate has decreased from 90.4\% in 2016/I7 to 89.2\% in 2017/18 instead of increasing and the decrease is noticed for both females and males.
There is an improvement in reducing rate of repetition from $5.2 \%$ in $2016 / 17$ to $5.0 \%$ in 2017/18. Unfortunately, the repetition rate is still higher than the ESSP 2016/I7 target of 2.9\%.

Dropout rate in secondary has increased from $4.4 \%$ in $2016 / 17$ to $5.8 \%$ in $2017 / 18$. It is also indicated that females have the high rate of dropout (6.1\%) compared to of males (5.4). Generally, 2018 education statistics reveal that promotion and dropout rates kept increased.

The government should focus on a multi -dimensional approach against the increase of drop out and the decrease of promotion rates. Different stakeholders including families, community members, police, school leaders and teachers, religious institutions, Local Government, and NonGovernmental Organizations.

[^2]Table 4.16: Promotion, repetition and dropout rate in lower secondary schools

| INDICATOR/YEAR | $\mathbf{2 0 1 5 / 1 6}$ | $\mathbf{2 0 1 6 / 1 7}$ | $\mathbf{2 0 1 7 / 1 8}$ |
| :--- | ---: | ---: | ---: |
| Promotion rate | $\mathbf{8 1 . 9 \%}$ | $\mathbf{8 6 . 4 \%}$ | $\mathbf{8 6 . 9 \%}$ |
| Male | $81.9 \%$ | $86.3 \%$ | $87.1 \%$ |
| Female | $81.9 \%$ | $86.4 \%$ | $86.7 \%$ |
| Repetition Rate | $\mathbf{1 1 . 6 \%}$ | $\mathbf{7 . 3} \%$ | $\mathbf{6 . 0 \%}$ |
| Male | $12.0 \%$ | $7.6 \%$ | $6.4 \%$ |
| Female | $11.2 \%$ | $7.1 \%$ | $5.6 \%$ |
| Dropout Rate | $\mathbf{6 . 5 \%}$ | $\mathbf{6 . 3} \%$ | $\mathbf{7 . 1 \%}$ |
| Male | $6.3 \%$ | $6.1 \%$ | $6.5 \%$ |
| Female | $6.7 \%$ | $6.5 \%$ | $7.7 \%$ |

The table 4.16 illustrates that the promotion rate increased in lower secondary from $81.9 \%$ in $2015 / 16,86.4 \%$ in $2016 / 17$ to $86.9 \%$ in $2017 / 18$. Repetition rate improved from $11.6 \%$ in $2015 / 16$, $7.3 \%$ in $2016 / 17$ and $6.0 \%$ in $2017 / 18$ in lower secondary. The ESSP target (7\%) has been achieved.

Dropout rate for lower secondary improved from $6.5 \%$ for $2015 / 16$ to $6.3 \%$ for $2016 / 17$ but it has also increased from $2016 / 17$ to $2017 / 18$ with $6.3 \%$ and $7.1 \%$ respectively. The ESSP target of $6 \%$ in 2018 was not yet met, the issue is also to be tackled to address the cause.

Table 4.17: Promotion, repetition and dropout rate in upper secondary schools

| INDICATOR/YEAR | $\mathbf{2 0 1 5 / 1 6}$ | $\mathbf{2 0 1 6 / 1 7}$ | $\mathbf{2 0 1 7 1 1 8}$ |
| :--- | ---: | ---: | ---: |
| Promotion rate | $\mathbf{9 1 . 5 \%}$ | $\mathbf{9 4 . 4 \%}$ | $\mathbf{9 5 . 5 \%}$ |
| Male | $92.6 \%$ | $95.5 \%$ | $95.7 \%$ |
| Female | $90.5 \%$ | $93.4 \%$ | $95.3 \%$ |
| Repetition Rate | $\mathbf{6 . 0 \%}$ | $\mathbf{3 . 1} \%$ | $\mathbf{5 . 0 \%}$ |
| Male | $4.9 \%$ | $\mathbf{2 . 5 \%}$ | $5.3 \%$ |
| Female | $7.0 \%$ | $3.6 \%$ | $4.8 \%$ |
| Dropout Rate | $\mathbf{2 . 5 \%}$ | $\mathbf{2 . 5 \%}$ | $\mathbf{1 . 7 \%}$ |
| Male | $\mathbf{1 . 9 \%}$ | $1.9 \%$ | $\mathbf{1 . 9 \%}$ |
| Female | $3.0 \%$ | $3.0 \%$ | $\mathbf{1 . 6 \%}$ |

Table 4.7 shows that the promotion rate increased from $91.5 \%$ in $2015 / 16,94.4 \%$ in $2016 / 17$ to $95.5 \%$ in $2017 / 8$ in upper secondary. Repetition rate improved from $6.0 \%$ in $2015 / 16$, to $3.1 \%$ in 2016/17 and increase to $5.0 \%$ in 2017/8 instead of continuing decreasing in upper secondary. Here, measures should be taken to reduce the repetition rate since the ESSP target (3\%) in 2018 is not yet achieved. The issue must be addressed to identify the root causes and take measures to eradicate drop out. See policy actions below table 4.14.

Dropout rate remained constant at $2.5 \%$ in $2015 / 16$ and in $2016 / 17$ respectively. In 2017/18, there is a considerable improvement by reducing rate from $2.5 \%$ in $2016 / 17$ to $1.7 \%$ in 2017/18. The ESSP target of $2 \%$ was also achieved.

Table 4.18: Secondary promotion, repetition and dropout rate in 2017 by grade.

| Level | Promotion Rate |  |  | Repetition Rate |  |  | Drop Out Rate |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Secondary 1 |  |  |  | 6.4\% | 5.6\% | 6.0\% | 6.4\% | 7.2\% | 6.9\% |
| Secondary 2 | 87.1\% | 87.2\% | 87.2\% | 6.4\% | 5.7\% | 6.0\% | 6.6\% | 8.2\% | 7.5\% |
| Secondary 3 | 87.0\% | 86.1\% | 86.5\% | 0.6\% | 0.7\% | 0.6\% |  |  |  |
| Secondary 4 |  |  |  | 2.8\% | 3.2\% | 3.0\% | 2.5\% | 2.8\% | 2.7\% |
| Secondary 5 | 94.7\% | 94.0\% | 94.3\% | 2.1\% | 3.1\% | 2.7\% | I.1\% | 0.1\% | 0.5\% |
| Secondary 6 | 96.8\% | 96.8\% | 96.8\% | 0.9\% | I.1\% | I.0\% |  |  |  |

In 2017, repetition rate is high in secondary I and 2 ( $6.0 \%$ overall). The lowest repetition rate was for secondary 3 ( $0.6 \%$ ). Dropout rate was highest in secondary 2 ( $7.5 \%$ ) and lowest for secondary 5 (0.5\%).

Table 4.19. Secondary GER and NER from 2016 to 2018

| INDICATORS | 2016 | 2017 | 2018 |
| :---: | :---: | :---: | :---: |
| Secondary |  |  |  |
| Gross Enrolment Rate (Overall) | 37.2\% | 38.2\% | 39.6\% |
| GER Male | 35.8\% | 36.3\% | 37.5\% |
| GER Female | 38.5\% | 40.1\% | 41.7\% |
| Net Enrolment Rate (Overall) | 32.9\% | 34.1\% | 30.1\% |
| NER Male | 31.2\% | 31.9\% | 32.1\% |
| NER Female | 34.6\% | 36.3\% | 28.2\% |
| Lower secondary |  |  |  |
| Gross Enrolment Rate (Overall) | 42.5\% | 44.9\% | 47.7\% |
| GER Male | 39.9\% | 41.9\% | 44.3\% |
| GER Female | 45.0\% | 47.9\% | 51.2\% |
| Net Enrolment Rate (Overall) | 22.6\% | 24.4\% | 27.2\% |
| NER Male | 20.6\% | 21.8\% | 24.2\% |
| NER Female | 24.6\% | 27.0\% | 30.2\% |
| Upper secondary |  |  |  |
| Gross Enrolment Rate (Overall) | 31.2\% | 30.6\% | 30.4\% |
| GER Male | 31.1\% | 29.9\% | 29.8\% |
| GER Female | 31.3\% | 31.3\% | 31.0\% |
| Net Enrolment Rate (Overall) | 23.5\% | 23.8\% | 21.9\% |
| NER Male | 22.7\% | 22.9\% | 20.7\% |
| NER Female | 24.3\% | 24.6\% | 23.2\% |

The above table indicates that the secondary Gross Enrolment Rate increased from $37.2 \%$ in 2016 to $39.6 \%$ in 2018 . In lower secondary GER increased from $42.5 \%$ in 2016 to $47.7 \%$ in 2018. The ESSP 2017/I8 target of $47.4 \%$ was met. While in upper secondary it slightly decreased from $31.2 \%$ in 2016 to $29.7 \%$ in 2018 . The ESSP target was to achieve $34.3 \%$ in 2018.

Net Enrolment Rate decreased from $32.9 \%$ in 2016 to $30.4 \%$ in 2017 . In lower secondary school, it increased from $22.6 \%$ in 2016 to $26.9 \%$ in 2018 while in upper secondary it decreased from $23.5 \%$ in 2016 to $21.9 \%$ in 2018 . When GER increased but NER decreased it means that the overall number of students are increasing but when focusing on official age they are already overaged when entering in upper secondary. The problem of overaged observed in Primary level have a knock-on effect on secondary.

The NER at secondary level is still low because if only $30.4 \%$ of population aged between 13 and I8 are attending secondary schools it means that the remaining $70.2 \%$ of children who were expected to be in secondary school are not enrolled in this level. Some of them might still be in primary or out of the system. Causes of this case vary from district to district. A deep survey is to be conducted to tackle the cause and suggest solution.

Table 4.20: Secondary GIR and NIR from 2016 to 2018

| Indicator/Year | 2016 | 2017 | 2018 |
| :---: | :---: | :---: | :---: |
| Gross Intake Rate in SI (Overall) | 43.6\% | 49.9\% | 57.6\% |
| GIR_SI Male | 40.6\% | 45.9\% | 53.0\% |
| GIR_SI Female | 46.5\% | 53.9\% | 62.0\% |
| Net Intake Rate in SI (Overall) | 9.7\% | 11.2\% | 14.1\% |
| NIR_SI Male | 8.5\% | 9.8\% | 12.3\% |
| NIR_SI Female | 10.9\% | 12.5\% | 15.8\% |
| Gross Intake Rate in S3 (Overall) | 35.2\% | 36.6\% | 35.0\% |
| GIR_S3 Male | 33.3\% | 34.7\% | 32.9\% |
| GIR_S3 Female | 37.1\% | 38.6\% | 37.2\% |
| Net Intake Rate in S3 (Overall) | 8.7\% | 8.9\% | 9.1\% |
| NIR_S3 Male | 8.1\% | 8.3\% | 8.5\% |
| NIR_S3 Female | 9.4\% | 9.5\% | 9.8\% |
| Gross Intake Rate in S6 (Overall) | 28.3\% | 28.9\% | 25.5\% |
| GIR_S6 Male | 28.0\% | 28.9\% | 25.0\% |
| GIR_S6 Female | 28.2\% | 28.8\% | 26.0\% |
| Net Intake Rate in S6 (Overall) | 10.9\% | 12.8\% | 9.6\% |
| NIR_S6 Male | 9.9\% | 12.4\% | 8.9\% |
| NIR_S6 Female | 11.8\% | 13.3\% | 10.3\% |

Gross Intake Rate in SI as it is shown in table 4.20, increased from $43.6 \%$ in 2016 to $57.6 \%$ in 2018 while Net Intake Rate in SI also increased from $9.7 \%$ in 2016 to $14.1 \%$ in 2018 . Although it is increasing it still very low, because the $14.1 \%$ NIR indicated that only $14.1 \%$ of student entering Senior I are aged I3 years, the remaining $83.9 \%$ are not yet in senior one. The difference between GIR and NIR shows the percentages of new students in Senior one who are under and/or aboveage.

GIR in senior three and senior six stands respectively at $35 \%$ and $25.5 \%$ which represents the total number of new entrants in S3 and in S6 respectively, regardless of age, expressed as a percentage of the population aged 15 and 18 years. $9.1 \%$ and $9.6 \%$ represent new entrants in S3 and in S 6 respectively who are of the official school-entrance age, expressed as a percentage of the population of the same age. The ESSP target of $39.4 \%$ and $31.30 \%$ Gross intake rate was not achieved respectively in lower secondary education (S3) and in upper secondary education (S6).

The data in the table above reveals that the enrolment of students at school-entrance age is still low. Possible strategies are suggested to overcome this issue such as,

- Sensitizing parents and children through campaigns at school and at community levels,
- Strengthening the programme of school feeding through awareness campaigns,
- Improving the evaluation of performance contracts pledge at school and district levels,
- constructing more schools to reduce long the distance travelled by students.

Figure 4.I: Distribution of secondary students by age and sex in 2018


Table 4.21: Transition rate from lower to upper secondary from 2015 to 2017

| Indicator/Year | $\mathbf{2 0 1 5 / 1 6}$ | $\mathbf{2 0 1 6 / 1 7}$ | $\mathbf{2 0 1 7 / 1 8}$ |
| :--- | ---: | ---: | ---: |
| Transition rate (Overall) | $\mathbf{8 2 . 8 \%}$ | $\mathbf{8 5 . 1 \%}$ | $\mathbf{8 5 . 4 \%}$ |
| TR Male | $84.8 \%$ | $87.2 \%$ | $88.7 \%$ |
| TR Female | $81.1 \%$ | $83.4 \%$ | $82.5 \%$ |

The table 4.21 indicates that the transition rate improved from $82.8 \%$ in $2015 / 16$ to $85.1 \%$ in $2016 / 17$ and continue to improve to $85.4 \%$ in 2017/8. The ESSP target ( $87 \%$ ) in 2018 was not yet achieved. The transition rate of Female is less than that of Male. This is a strong indication that girls require extra support to enroll in secondary schools than the boys.

An uneven distribution of schools decreases the chances of enroll in same combinations decreases. It is thus, imperative to organize stakeholders' sensitization meetings by the ministry and other interested parties to educate the Rwandan population on the need to give equal chances for both boys and girls to continue with secondary education and Construction of sustainable partnerships and mobilizing of local resources. The Ministry will continue to instigate effective machineries to ensure that no learner is blocked from transiting to secondary school because of fees and other levies.

Table 4.22: Number of refugees enrolled in general secondary in 2018

| Description/Year | $\mathbf{2 0 1 8}$ |
| :--- | ---: |
| Total Refugee Students | $\mathbf{1 0 , 0 1 5}$ |
| Male | 5,486 |
| Female | 4,529 |
| \% of Male | $54.8 \%$ |
| \% of Female | $45.2 \%$ |
| Refugee Students in Public schools | $\mathbf{6 , 3 2 0}$ |
| Male | 3,620 |
| Female | $\mathbf{2 , 7 0 0}$ |
| Refugee Students in Government aided schools | $\mathbf{3 , 1 7 8}$ |
| Male | $\mathbf{I}, 643$ |
| Female | $\mathbf{I}, 535$ |
| Refugee Students in Private schools | $\mathbf{5 1 7}$ |
| Male | $\mathbf{2 2 3}$ |
| Female | $\mathbf{2 9 4}$ |

The number of refugees in secondary schools was high in public schools with $63 \%$, followed by government aided with $31 \%$ and the low proportion was in private schools. As shown in the table 4.22, the proportion of male refugees is higher than female in secondary schools in 2018.

The percentage of refugee students in secondary integrated to the Rwanda education system was at $79.4 \%$ in 2018 : fully integration has been achieved for Mahama, Kigeme, and Mugombwa camp while the percentage of integration for Nyabiheke and Gihembe are respectively at $69.3 \%$ and $76.8 \%$. Kiziba camp has not yet started with the integration due to the lack of national school nearby, Therefore, classes have been constructed inside the camp to accommodate both nationals and refugees.

### 4.3 Secondary school staff

Table 4.23: Secondary school staff from 2016 to 2018

| INDICATOR/YEAR | 2016 | 2017 | 2018 |
| :---: | :---: | :---: | :---: |
| School staff | 28,785 | 28,389 | 30,040 |
| Male | 20,063 | 19,729 | 20,636 |
| Female | 8,722 | 8,660 | 9,404 |
| \% of Male | 69.7\% | 69.5\% | 68.7\% |
| \% of Female | 30.3\% | 30.5\% | 31.3\% |
| Teaching staff | 22,491 | 21,990 | 23,036 |
| Male | 16,424 | 16,006 | 16,569 |
| Female | 6,067 | 5,984 | 6,467 |
| \% of Male | 73.0\% | 72.8\% | 71.9\% |
| \% of Female | 27.0\% | 27.2\% | 28.1\% |
| Administrative staff | 6,294 | 6,399 | 7,004 |
| Male | 3,639 | 3,723 | 4,067 |
| Female | 2,655 | 2,676 | 2,937 |
| \% of Male | 57.8\% | 58.2\% | 58.1\% |
| \% of Female | 42.2\% | 41.8\% | 41.9\% |
| Qualified Staff | 22,258 | 22,565 | 22,966 |
| Qualified Male Staff | 16,033 | 16,215 | 16,283 |
| Qualified Female Staff | 6,225 | 6,350 | 6,683 |
| \% of Qualified Staff | 77.2\% | 79.5\% | 76.5\% |
| \% of Qualified Male Staff | 79.8\% | 82.2\% | 78.9\% |
| \% Qualified Female Staff | 71.2\% | 73.3\% | 71.1\% |
| Trained Staff | 15,386 | 16,285 | 17,933 |
| Trained Male Staff | 11,114 | 11,739 | 12,762 |
| Trained Female Staff | 4,272 | 4,546 | 5,171 |
| \% of Trained Staff | 53.3\% | 57.4\% | 59.7\% |
| \% of Trained Male Staff | 55.3\% | 59.5\% | 61.8\% |
| \% Trained Female Staff | 48.9\% | 52.5\% | 55.0\% |
| Pupils: Teacher Ratio | 19 | 21 | 22 |
| Pupils: Qualified Teacher Ratio | 25 | 26 | 28 |
| Pupils: Trained Teacher Ratio | 36 | 36 | 36 |

It is indicated in this table that the number of staff (both male and female) decreased from 28,785 in 2016 to 28,389 in 2017 and increased to 30,040 in 2018 . The proportion of male staff is almost
double $(69.7 \%$ in $2016,69.5 \%$ in 2017 and $68.7 \%$ in 20I8) than female staff ( $30.3 \%$ in $2016,30.3 \%$ in 2017 and $31.3 \%$ in 2018) in secondary schools.

There is also a need of reducing the ratio students and trained teacher, which is $36: 1$. The ESSP target of $35: 1$ is not yet achieved there is a need to motivate secondary teachers to pursue studies for pedagogical skills to become professional competent teacher for the improvement of quality learning and teaching.

Table 4.24: Number of secondary school staff from 2016 to 2018 by school 'status

| Description/Year | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Total school staff | $\mathbf{2 8 , 7 8 5}$ | $\mathbf{2 8 , 3 8 9}$ | $\mathbf{3 0 , 0 4 0}$ |
| Male | 20,063 | 19,729 | 20,636 |
| Female | 8,722 | 8,660 | 9,404 |
| Staff in Public schools | $\mathbf{8 , 6 3 2}$ | $\mathbf{8 , 4 8 2}$ | $\mathbf{9 , 2 7 3}$ |
| Male | 5,979 | 5,834 | 6,339 |
| Female | 2,653 | 2,648 | 2,934 |
| Staff in Government aided schools | $\mathbf{1 5 , 2 6 8}$ | $\mathbf{1 5 , 2 5 I}$ | $\mathbf{I 5 , 4 7 9}$ |
| Male | 10,438 | 10,377 | 10,452 |
| Female | 4,830 | 4,874 | 5,027 |
| Staff in Private schools | $\mathbf{4 , 8 8 5}$ | $\mathbf{4 , 6 5 6}$ | $\mathbf{5 , 2 8 8}$ |
| Male | 3,646 | 3,518 | 3,845 |
| Female | 1,239 | 1,138 | 1,443 |

The table 4.20 shows that there is an increase in numbers of staff in secondary schools from 2016 to $2018.28,785$ in $2016,28,389$ in 2017 and 30,040 in 2018. Government aided schools have the highest number of staff with 15,268 in 2016 (53.0\%), 15,25 I in 2017 (53.7\%) and 15,479 in 20I8(5I.5\%). Public schools have 9,273 staff ( $0.3 \%$ ) and private with 5,288 ( $0.17 \%$ ).

Table 4.25: Number of secondary school staff in 2018 by status

| Status | Teaching staff |  | Administrative staff |  | Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | Male | Female | Male | Female | Total |
| Public | $5, \mathrm{I} 58$ | $2, \mathrm{I} 08$ | $\mathrm{I}, \mathrm{I8I}$ | 826 | 6,339 | 2,934 | 9,273 |
| Government aided | 8,530 | 3,635 | 1,922 | 1,392 | 10,452 | 5,027 | 15,479 |
| Private | $2,88 \mathrm{I}$ | 724 | 964 | 719 | 3,845 | 1,443 | 5,288 |
| Total | $\mathbf{1 6 , 5 6 9}$ | $\mathbf{6 , 4 6 7}$ | $\mathbf{4 , 0 6 7}$ | $\mathbf{2 , 9 3 7}$ | $\mathbf{2 0 , 6 3 6}$ | $\mathbf{9 , 4 0 4}$ | $\mathbf{3 0 , 0 4 0}$ |

Table 4.21 illustrates that, in 2018 the number of male teaching staff 16,569 (71.9\%) is almost three times the number of females $6,467(28 \%)$. Also, for administrative staff, the number of males at $4,067(58 \%)$ is greater than the number of females at 2,937 ( $41.9 \%$ ).

### 4.4 ICT, science and technology in secondary schools

Table 4.26: ICT, science and technology in secondary schools

| INDICATOR/YEAR | 2016 | 2017 | 2018 |
| :---: | :---: | :---: | :---: |
| Number of secondary schools with computers | 1,218 | 1,327 | 1,456 |
| \% of school with of computers | 77.3\% | 84.7\% | 84.26\% |
| Number of computers | 25,218 | 74,318 | 89,646 |
| Computers for students | 20,276 | 67,133 | 80,517 |
| Computers for administration | 3,335 | 3,783 | 4,240 |
| Computers for teachers | 1,607 | 3,402 | 5,106 |
| Users per Computers | 23 | 8 | 8 |
| Ratio students per computer | 27 | 9 | 8 |
| Ratio administrative staff per computer | 2 | 2 | 2 |
| Ratio Teaching staff per Computer | 14 | 6 | 5 |
| Number of secondary schools with internet connectivity | 558 | 647 | 914 |
| \% of school with internet connectivity | 35.4\% | 41.3\% | 52.9\% |
| Number of schools having ICT for teaching and learning | - | 944 | 1,118 |
| \% of school having ICT for teaching and learning |  | 60.2\% | 64.7\% |
| Number of secondary schools with sciences Kits | 996 | 1,038 | 1,103 |
| \% of school with sciences Kits | 63.2\% | 66.2\% | 63.8\% |
| Number of secondary schools with sciences laboratory | 346 | 338 | 338 |
| \% of school with sciences laboratory | 22.0\% | 21.6\% | 21.6\% |
| Number of ICT qualified teachers | - | 2,571 | 3,07I |

The table 4.22 illustrates that in $2018,84.25 \%$ of secondary schools have computers. However, this is still below the ESSP target of $90 \%$ for $2016 / 17$. There is an increase in distribution of computers where the number of computers has tremendously increased from 25,218 in 2016 to 74,318 in 2017 and to 89,646 in 2018 . The increment is due to the policy of distribution of Positivo computers in secondary schools.

The proportion of schools with internet connectivity increased, it was $41.3 \%$ in 2017 to $52.9 \%$ in 2018 , which is above the target of $40.9 \%$ as set in the ESSP for 2018 . Similarly, the proportion of secondary schools with access to science kits was $66.2 \%$ in 2017 and $63.8 \%$ in 2018 , while the ESSP target is ( $71.3 \%$ ) more sciences kits is needed in secondary education. This is also below the 2017/I8 ESSP target of 90\%. The proportion of schools with sciences laboratory was $21.6 \%$ in 2017 and $26.6 \%$ in 2018 . This was close to the ESSP target of $25.2 \%$.

The table also indicates that ratio of students per computer was 27:1 in 2016 and improved to 9:1 and still improved in 2018 at 8:1. The improvement is also noticed in ratio of teaching staff per computer where it was $14: 1$ in 2016 and became $6: 1$ in 2017 and improved at $5: 1$ in 2018.

This is the indication that the number of students using computers in schools is increasing, and teaching and learning is facilitated by using ICT (64.7\%). It also shows that computer literacy is becoming an increasingly essential skill in secondary schools.

### 4.5 Books and textbooks in secondary schools

Table 4.27: Secondary schools with library from 2016 to 2018

| Indicators / Year | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Number of Secondary schools with library | $\mathbf{8 9 3}$ | $\mathbf{8 7 5}$ | $\mathbf{9 5 5}$ |
| \% of school with library | $56.7 \%$ | $55.8 \%$ | $55.3 \%$ |

The table 4.25 shows that the number of secondary schools with library increased from 875 in 2017 to 955 in 2018 but the percentage still decreased due to that some of new many schools without libraries, were established. The ESSP 20I7/I8 stipulates that $86.8 \%$ of secondary schools should have libraries by 2017/I8. This target was not achieved.

Students and teachers across schools and academic levels are affected by the quality and availability of library services. Different researches show that School libraries have an impact on the raising of students' attainment in schools, on the learning experience in terms of motivation, progression, independence and their interaction. Consideration should be given to provision of more libraries.

Table 4.28: Books in use by lower secondary students in 2018

| Subjects | Number of books |  |  | Pupils-book ratio |  |  |
| :--- | ---: | :---: | :---: | ---: | ---: | ---: |
|  | S1 | S2 | S3 | SI | S2 | S3 |
| Mathematics | 97,376 | 75,620 | 82,502 | 2 | 2 | 1 |
| Chemistry | 89,645 | 72,589 | 73,100 | 2 | 2 | 1 |
| English | 89,277 | 70,714 | 63,987 | 2 | 2 | 2 |
| Biology | 82,650 | 67,714 | 68,182 | 2 | 2 | I |
| Physics | 80,520 | 64,302 | 67,720 | 2 | 2 | 1 |
| Geography | 71,716 | 69,927 | 73,700 | 3 | 2 | 1 |
| Kinyarwanda | 48,851 | 44,872 | 40,667 | 4 | 3 | 2 |
| Entrepreneurship | 48,039 | 50,694 | 36,852 | 4 | 3 | 3 |
| History and Citizenship | 46,647 | 38,402 | 36,230 | 4 | 4 | 3 |
| French | 37,219 | 28,790 | 25,114 | 5 | 5 | 4 |
| ICT | 32,755 | 27,991 | 24,110 | 6 | 5 | 4 |
| Computer Science | 27,479 | 25,047 | 21,010 | 7 | 5 | 5 |

It is indicated in table 4.24 that Mathematics, Chemistry, Biology, Physics and Geography for S3 have the pupils-book ratio, which is in the range of the standard (I:I) as recommended in ESSP recommended.

Compared to the standards, other subjects have the higher ratio: Computer Science (7:1 in SI and $5: 1$ in S2 and S3), ICT (6:I in SI and 5:I in S2), French (5:I in SI and S2, and 4:I in S3), History and Citizenship(4:I in Sland S2 and 3:I in S3), Entrepreneurship (4:I in SI, 3:I in S2 and S3), Kinyarwanda (4:I in SI, 3:I in S2) Geography (3:I in S3).

The textbook per student ratio contributes towards quality teaching and learning among other criteria. The government should provide well-designed textbooks in sufficient quantities to improve instruction and learning.

Table 4.29: Books in use by students in science combinations in 2018

| Subjects | Number of books |  |  | Pupil book ratio |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
|  | S4 | S5 | S6 | S4 | S5 | S6 |
| Chemistry | 17,085 | $15,96 I$ | 17,081 | 2 | 2 | 1 |
| Entrepreneurship | 12,087 | 8,727 | 8,902 | 3 | 3 | 3 |
| Physics | 11,285 | 10,864 | 13,595 | 3 | 3 | 2 |
| Biology | 9,956 | 9,284 | 10,303 | 3 | 3 | 2 |
| Mathematics | 8,312 | 8,242 | 8,219 | 4 | 3 | 3 |
| Geography | 8,194 | 6,805 | 7,590 | 4 | 4 | 3 |
| Economics | 7,190 | 6,480 | 7,732 | 5 | 4 | 3 |
| Kinyarwanda | 6,543 | 6,066 | 6,515 | 5 | 5 | 4 |
| Computer Science | 6,391 | 5,480 | 5,819 | 5 | 5 | 4 |
| French | 6,156 | 5,516 | 4,925 | 5 | 5 | 5 |
| English | 6,068 | 4,873 | 5,087 | 5 | 6 | 5 |

This table shows that Chemistry for S 3 has the pupil-book ratio, which is in the range of standards (I:I) recommended by the ESSP. The following subjects have higher ratio compared to the standard: English (5:I in S4, 6:I in S5 and 5:I in S6), French (5:I in both S4, S5 and S6), Computer Science (5:1 in S4 and 5), Kinyarwanda (5:1 in S4 and 5), Economics (5:1 in S4, 4:I in S5 and 3:1 in S6), Geography (4:I in S4 and S5, 3:I in S6), Mathematics (4:I in S4, 3:I in S5 and S6). Note that subjects with pupils-book ratio which is greater than $3: 1$ is to be considered as high and needs to be improved by increasing the number of books.

Table 4.30: Books in use by students in humanities combinations in 2018

| Subjects | Number of books |  |  | Pupil book ratio |  |  |
| :--- | ---: | :---: | :---: | ---: | ---: | ---: |
|  | S4 | S5 | S6 | S4 | S5 | S6 |
| Geography | $9,4 I 7$ | $7, \mathrm{II} 2$ | $8, \mathrm{I} 73$ | I | I | I |
| Entrepreneurship | 8,063 | 5,239 | 5,606 | 2 | 2 | 2 |
| Economics | 6,965 | $6,67 \mathrm{I}$ | 7,032 | 2 | 2 | I |
| History and Citizenship | 4,546 | 4,475 | 4,314 | 3 | 2 | 2 |
| General Studies and Communication | 1,837 | 2,387 | 2,052 | 7 | 4 | 4 |
| Kinyarwanda | $\mathrm{I}, 617$ | $\mathrm{I}, 615$ | $\mathrm{I}, 810$ | 8 | 6 | 5 |
| English | $\mathrm{I}, 194$ | $\mathrm{I}, \mathrm{I} 39$ | $\mathrm{I}, 00 \mathrm{I}$ | 10 | 9 | 9 |

Table4.30 shows that only geography ( $1: 1$ in $\mathrm{S} 4,5$ and S 6 ) and Economics ( $\mathrm{I}: 1 \mathrm{I}$ in S 6 ) subjects have reached the target. The following subjects have the highest pupils-book ratio: English (I0:I in S4, 9:1 in S5 and S6), Kinyarwanda (8:I in S4, 6:1 in S5 and 5:1 in S6), General Studies and Communication (7:I in S4, 4:I in S5 and S6), History and Citizenship (3:I in S4). This issue needs to be addressed by putting in place strategies to increase books.

Table 4.31: Books in use by students in Languages combinations in 2018

| Subjects | Number of books |  |  | Pupil book ratio |  |  |
| :--- | :---: | :---: | :---: | ---: | ---: | ---: |
|  | S4 | S5 | S6 | S4 | S5 | S6 |
| Kinyarwanda | 8,046 | 8,199 | 7,733 | 2 | 1 | 1 |
| English | 7,037 | 6,876 | 5,523 | 2 | 2 | 2 |
| Literature in English | 6,021 | 1,929 | 1,893 | 2 | 5 | 4 |
| Kiswahili | 4,617 | 4,510 | 4,964 | 3 | 2 | 2 |
| French | 2,366 | 2,048 | 1,993 | 5 | 5 | 4 |

The table above indicates that only Kinyarwanda subject in S 5 and S 6 met the target I:I according to the standards. It is to mention that French (5:I in S4 and S5, 4:I in S6), Literature in English (5:I in S5 and 4:I in S6) subjects are very far from the standards. There is also a need of availing more books for those subjects.

Table 4.32: Books in use by TTC students in 2018

| Subjects | Number of books |  |  | Pupil book ratio |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | S4 | S5 | S6 | S4 | S5 | S6 |
| French | 1,608 | 1,568 | 1,656 | 2 | 2 | 2 |
| English | 1,281 | 1,027 | 1,386 | 2 | 3 | 2 |
| Kinyarwanda | 1,174 | 997 | 886 | 3 | 3 | 3 |
| Geography | 1,049 | 828 | 860 | 3 | 4 | 4 |
| Mathematics | 722 | 779 | 687 | 4 | 4 | 4 |
| Foundations of Education | 687 | 718 | 1,033 | 4 | 4 | 3 |
| Biology | 553 | 548 | 568 | 6 | 6 | 5 |
| General Sciences and Mathematics | 477 | 521 | 442 | 6 | 6 | 7 |
| Social and Religious Studies | 477 | 483 | 472 | 6 | 6 | 6 |
| Physics | 466 | 413 | 426 | 7 | 8 | 7 |
| History and Citizenship | 448 | 309 | 330 | 7 | 10 | 9 |

In secondary schools, the pupils-book ratio is supposed to be 3:I. Referring to that expectation, the pupils-book ratio in TTC schools is higher.

Considering the ratio for each subject, we have: History and Citizenship (7: in S4, $10: 1$ in S 5 and 9:I in S6), Physics (7:I in S4 and S6, 8:1in S5) as well as in Biology, General Sciences and Mathematics, Foundation of Education, Mathematics and Geography subjects with the pupils-book ratios varying between $4: I$ and $6: 1$.

### 4.6 Source of energy in secondary school

Table 4.33: Source of energy in secondary schools from 2016 to 2018

| INDICATOR/YEAR | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Number of schools with on grid electricity supply | $\mathbf{7 2 6}$ | $\mathbf{I}, \mathbf{I I 5}$ | $\mathbf{I , 2 8 3}$ |
| \% of school with on grid electricity supply | $46.1 \%$ | $71.2 \%$ | $74.2 \%$ |
| Number of schools with Solar power | $\mathbf{3 0 1}$ | $\mathbf{3 0 4}$ | $\mathbf{3 1 6}$ |
| \% of school with Solar power | $\mathbf{1 9 . 1 \%}$ | $\mathbf{1 9 . 4 \%}$ | $\mathbf{I 8 . 3 \%}$ |
| Number of schools with Electric power generator supply | $\mathbf{4 2 2}$ | $\mathbf{3 6 2}$ | $\mathbf{4 3 2}$ |
| \% of school with Electric power generator supply | $26.8 \%$ | $23.1 \%$ | $25.0 \%$ |
| Number of schools with Biogas system | $\mathbf{9 4}$ | $\mathbf{6 6}$ | $\mathbf{4 9}$ |
| \% of school with Biogas system | $6.0 \%$ | $4.2 \%$ | $2.8 \%$ |

Table 4.29 illustrates that number of schools with on grid electricity supply increased from 726 ( $46.1 \%$ ) in 2016 to $1,115(71.2 \%$ ) in 2017 and to 1,283 in $2018(74.4 \%)$. Given that the ESSP objective was to ensure that $74.4 \%$ of secondary schools have access to electricity by $2017 / 18$, the target has not been achieved. Having electricity is one of the conditions of being given computers; this situation can negatively affect the distribution of the latter if the percentage of school having electricity is still low. Not having electricity not only affect the distribution of computers, it also affects the learning and teaching in general.

### 4.7 Water and sanitation in secondary schools

Table 4.34: Water in secondary schools for 2016, 2017 and 2018.

| INDICATOR/YEAR | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Number of secondary schools with safe drinking water | - | $\mathbf{9 1 6}$ | $\mathbf{1 , 2 4 2}$ |
|  | \% of secondary school with improved drinking water |  |  |$)$

Table 4.32 shows that $71.9 \%$ of secondary schools use safe drinking water, this is above the ESSP target ( $60.4 \%$ ), $75.4 \%$ of schools have rain water harvesting systems, $61.9 \%$ access to tap water supply while 76.9 of schools have hand washing facilities. Diseases are consequences of not accessing water in schools and this affect negatively the performance of students. The government should increase the budget related to installation of water and schools be priority.

Table 4.35: Toilets in secondary schools from 2016 to 2018

| INDICATOR/YEAR | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Number of toilets in the school | $\mathbf{3 4 , 4 2 7}$ | $\mathbf{3 4 , 5 1 6}$ | $\mathbf{3 7 , 2 2 6}$ |
| For Female | 17,363 | 17,552 | 19,082 |
| For Male | 17,065 | 16,965 | 18,145 |
| For students | $\mathbf{3 1 , 5 1 7}$ | $\mathbf{3 1 , 7 4 0}$ | $\mathbf{3 4 , 1 8 3}$ |
| For Female students | 15,946 | 16,184 | 17,571 |
| For Male students | 15,572 | 15,556 | 16,612 |
| For staff | $\mathbf{2 , 9 1 0}$ | $\mathbf{2 , 7 7 6}$ | $\mathbf{3 , 0 4 3}$ |
| For Female staff | 1,417 | 1,368 | 1,511 |
| For Male staff | 1,493 | 1,409 | 1,533 |
| Ratio toilet per users | 17 | 18 | 18 |
| Female | 17 | 19 | 19 |
| Male | 16 | 17 | 18 |
| Students | 18 | 19 | 19 |
| Female students | 18 | 20 | 20 |
| Male students | 17 | 18 | 18 |
| Staff | 10 | 10 | 10 |
| Female staff | 6 | 6 | 6 |
| Male staff | 13 | 14 | 13 |

The total number of toilets were 34516 in 2017 which has increased to 37226 in 2018 . This is an increase of 2710 toilet built in 2017. The number of users per toilet is 18 : 19 for pupils per toilet and 10 staff per toilet. Proper and adequate toilets and sanitation facilities are key to preventing waterborne diseases like cholera and diarrhea.

### 4.8 School feeding program in secondary schools

Table 4.36: School feeding program in secondary schools from 2016 to 2018

| INDICATOR/YEAR | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: |
| Number of secondary schools participating in school <br> feeding | $\mathbf{1 , 1 0 1}$ | $\mathbf{1 , 3 3 5}$ | $\mathbf{1 , 3 4 1}$ |
| \% of secondary school participating in school feeding | $69.9 \%$ | $85.2 \%$ | $77.6 \%$ |
| Number of schools with nutrition garden | $\mathbf{4 8 3}$ | $\mathbf{1 , 0 2 7}$ | $\mathbf{1 , 1 7 5}$ |
| \% of school with nutrition garden | $30.7 \%$ | $65.5 \%$ | $68.0 \%$ |
| Number of students feed at school | $\mathbf{2 9 7 , 7 6 9}$ | $\mathbf{3 9 3 , 3 7 6}$ | $\mathbf{4 9 0 , 8 0 1}$ |

The number of secondary schools participating in school feeding increased from 1335 in 2017 to I34I in 2018. This is an increase of 6 schools in 2018. The number of schools with nutrition garden increase from 1027 in 2017 to 1,175 in 2018 . This is an increase of 148 schools. There is an increase in the number of students who receive meals at schools. As the table shows, it increased from 393,376 in 2017 to 490,801 in 2018. This is an increase of 97,425 students. However, the proportion of secondary students receiving a meal from school out of all the students enrolled in secondary is only $66.4 \%$. The more effort and investment should be undertaken to achieve the objective of universal school feeding.

### 4.9 Special need education in secondary schools

Table 4.37: Special need education in secondary schools from 2016 to 2018

| INDICATOR/YEAR | 2016 | 2017 | 2018 |
| :---: | :---: | :---: | :---: |
| Number of schools with adequate infrastructure for Disabilities | - | 369 | 494 |
| \% of school with adequate infrastructure for disabilities |  | 23.5\% | 28.6\% |
| Number of students with disability enrolled in secondary schools | 5,587 | 4,557 | 4,685 |
| Male | 2,918 | 2,253 | 2,445 |
| Female | 2,669 | 2,304 | 2,240 |
| \% of Male | 52.23\% | 49.44\% | 52.2\% |
| \% of Female | 47.77\% | 50.56\% | 47.8\% |
| Number of teachers trained in special needs and inclusive education | 1,105 | 1,592 | 2,225 |
| Male | 822 | 1,142 | 1,546 |
| Female | 283 | 450 | 679 |
| \% of Male | 74.39\% | 71.73\% | 69.5\% |
| \% of Female | 25.61\% | 28.27\% | 30.5\% |

Between 2017 and 2018, there is an increase of secondary school's adequate disabilities infrastructure from 369 schools to 494 schools. The percentage of schools meeting the standards of accessibility for those Living with disabilities (LwD) is $28.6 \%$, the ESSP target ( $26 \%$ ) in 2018 was achieved.

Table 4.38: Secondary school students with disability in 2018

| Type of disability | Level |  |  |  |  |  | TOTAL |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | SI | S2 | S3 | S4 | S5 | S6 |  |  |
| Hearing | 128 | 89 | 55 | 42 | 26 | 30 | 50 | $\mathbf{4 2 0}$ |
| Visual | 322 | 216 | 152 | 95 | 104 | 75 | 66 | $\mathbf{I , 0 3 0}$ |
| Speaking | 36 | 39 | 28 | 21 | 11 | 13 | 27 | $\mathbf{I 7 5}$ |
| Hearing and Speaking | 58 | 50 | 40 | 18 | 25 | 16 | 53 | $\mathbf{2 6 0}$ |
| Physical | 542 | 420 | 349 | 283 | 193 | 171 | 210 | $\mathbf{2 , I 6 8}$ |
| Learning | 148 | 101 | 71 | 35 | 17 | 26 | 37 | $\mathbf{4 3 5}$ |
| Multiple disabilities | 43 | 42 | 27 | 13 | 19 | 13 | 40 | $\mathbf{1 9 7}$ |
| Total | $\mathbf{I , 2 7 7}$ | $\mathbf{9 5 7}$ | $\mathbf{7 2 2}$ | $\mathbf{5 0 7}$ | $\mathbf{3 9 5}$ | $\mathbf{3 4 4}$ | $\mathbf{4 8 3}$ | $\mathbf{4 , 6 8 5}$ |

Rwanda has promoted special inclusive education, the big proportion $46 \%$ those living with Physical disabilities, followed with those with visual disabilities (2I\%).

Table 4.39: Secondary school students with disability enrolled in 2017 and 2018

|  | $\mathbf{2 0 1 7}$ |  |  | $\mathbf{2 0 1 8}^{\mathbf{6}}$ |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Level | Male | Female | Total | Male | Female | Total |
| Secondary I | 668 | 707 | 1,375 | 661 | 616 | 1,277 |
| Secondary 2 | 483 | 506 | 989 | 492 | 465 | 957 |
| Secondary 3 | 430 | 464 | 894 | 364 | 358 | 722 |
| Secondary 4 | 261 | 275 | 536 | 281 | 226 | 507 |
| Secondary 5 | 201 | 181 | 382 | 206 | 189 | 395 |
| Secondary 6 | 210 | 171 | 381 | 190 | 154 | 344 |
| Total | $\mathbf{2 , 2 5 3}$ | $\mathbf{2 , 3 0 4}$ | $\mathbf{4 , 5 5 7}$ | $\mathbf{2 , 1 9 4}$ | $\mathbf{2 , 0 0 8}$ | $\mathbf{4 , 2 0 2}$ |

As it is shown on tables above, secondary students with disability decreased from 4,557 in 2017 to 4202 in 2018 . Table 4.36 and 4.37 illustrate that Physical disability have highest number.

## 5 TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING

The Technical and Vocational Education and Training (TVET) is composed of TVET level I to 5 which is equivalent to ISCED 35 (some indicators related to this level are calculated in the previous section of secondary), TVET level 6 and 7 or Polytechnics equivalent to ISCED 4 ( some indicators related to this level will be calculated in the following section of tertiary) and TVET short courses, a special program which do not have an equivalent level in ISCED.

## 5.I TVET Infrastructure

Table 5.I: Number of TVET schools by level in 2017 and 2018

| Descriptions | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: |
| Total schools | $\mathbf{4 0 2}$ | $\mathbf{3 6 0}$ |
| Level I to 5 | 385 | 350 |
| Level 6 to 7 | 17 | 10 |
| TVET special program | - | - |

The 2018 education statistics also reveal that seven polytechnics decreased (From 17 to 10 ) due to merging public polytechnics in one which is Rwanda Polytechnic Higher Learning Institution. This is to strengthen public Polytechnics through sharing resources.

[^3]Table 5.2: Number of TVET schools by Status from 2016 to 2018

| Status | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Total schools | $\mathbf{3 9 4}$ | $\mathbf{4 0 2}$ | $\mathbf{3 6 0}$ |
| Public | 104 | 102 | 96 |
| Government aided | 42 | 40 | 45 |
| Private | 248 | 260 | 219 |

As shown in the table 5.2. TVET statistics reveal that 42 TVET schools reduced (from 402 to 360). Since the methodology of counting schools changed due to recent reforms in schools' structures that were introduced. Currently a TVET school which used to have a Vocational Training Centre (VTC) and Technical Secondary School (TSS) sections is counted as a one school as the two sections were merged. In addition, a few schools were closed in early 2018 following the quality audit conducted in December 2017 since they did not meet the quality standards.

Table 5.3: Number of TVET Classrooms for level I to 5 in 2017 and 2018

| Status | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: |
| Total classrooms | $\mathbf{3 , 0 1 4}$ | $\mathbf{2 , 8 4 6}$ |
| Public | 759 | 756 |
| Government aided | 410 | 439 |
| Private | 1,845 | $\mathbf{1 6 5 1}$ |
| Trainees per Classroom | $\mathbf{2 6}$ | $\mathbf{2 8}$ |
| Public | 27 | 29 |
| Government aided | 30 | 28 |
| Private | 25 | 28 |

The table 5.3 shows that 341 classrooms decreased in 2018 compared to 2017 statistics. This decrease is due to phasing out of some trades and close of a few schools which did not meet the quality standards. The Public and Government Aided schools lose 5 classrooms. There is a need to accommodate more students in TVET stream and reach the target of $60 \%$ from lower secondary graduates joining TVET by 2024.

## 2018 Average Trainees per classroom in TVET levell to 5



Map 5.I: Trainees per classroom in TVET level I to 5
In TVET schools, the standard is 25 students per classroom. It seems that the increase of students in a TVET classroom is gradually increasing from 26 in 2017 students to 28 students in 2018. This implies a need of additional classrooms to avoid a substandard classroom in future.

Table 5.4: Number of TVET desks for level I to 5 in 2017 and 2018

| Status | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: |
| Total desks | $\mathbf{4 4 , 4 1 4}$ | $\mathbf{4 3 , 2 5 5}$ |
| Public | 10,232 | 10,900 |
| Government aided | 6,326 | 6,542 |
| Private | 27,856 | 25,813 |
| Trainees per desks | $\mathbf{2}$ | $\mathbf{2}$ |
| Public | 2 | 2 |
| Government aided | 2 | 2 |
| Private | 2 | 2 |

In TVET schools, there is two trainees per one desk ratio, this ratio is the same across all TVET schools which is the normal standard.

### 5.2 TVET trainees

Table 5.5: Total Number of TVET trainees in 2017 and 2018

| Description/Year | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: |
| Total trainees | $\mathbf{1 0 7 , 5 0 I}$ | $\mathbf{1 0 2 , 4 8 5}$ |
| Male | 65,327 | 57,643 |
| Female | 42,174 | 44,842 |
| \% of Male | $60.8 \%$ | $56.2 \%$ |
| \% of Female | $39.2 \%$ | $43.8 \%$ |
| Trainees in TVET level I to 5 | $\mathbf{7 9 , 5 9 5}$ | $\mathbf{7 9 , 3 8 8}$ |
| Male | 43,500 | 43,585 |
| Female | 36,095 | 35,803 |
| Trainees in TVET level 6 to 7 | $\mathbf{1 0 , 4 2 0}$ | $\mathbf{1 3 , 4 4 7}$ |
| Male | $7,88 \mathbf{I}$ | $9,66 \mathbf{1}$ |
| Female | 2,539 | 3,786 |
| Trainees in TVET special program | $\mathbf{1 7 , 4 8 6}$ | $\mathbf{9 , 6 5 0}$ |
| Male | $\mathbf{I 3 , 9 4 6}$ | 4,397 |
| Female | 3,540 | 5,253 |

The number of males is higher than that female, the ESSP target of gender parity in enrolment in TVET is 0.69 , the target was achieved since it is 0.78 in 2018. Measures, more effort should be taken to increase the female enrolment in TVET. Table 5.5 above shows a slight decrease of 207 students enrolled in Level I-5 (from 79,595 to 79,388). The Government should encourage the owners of the schools (Private, Government Aided and Public) to expand and renovate training facilities to the required standards and apply for reaccreditation.

It is also shown that 3,027 students in polytechnics increased (from 10,420 to 13,447 ). Out of this increase, we have 1780 males and 246 females. This is because more graduates of S6 chose to continue in TVET stream and have hope to get job right after graduation or become easily self-employed. However, the increase of females is low, $12.1 \%$ female students increased compared to 87.8 \% of males. One of the reasons most of Polytechnics are training STEM related program which are still not yet attractive to females. Female are mostly attracted by business, hospitality, arts and crafts, beauty and aesthetics trades as shown in table 5.II. The Government should therefore put more efforts in awareness campaigns and setting up various affirmative actions aimed at increasing the number of females in STEM related trades.

In special programs, 7, 836 training beneficiaries generally reduced compared to previous year (from I7, 486 to 9,650). Specifically, 9, 549 males reduced (From I3,946 to 4,397) while I,7I3 females increased (From 3,540 to 5,253). The reason behind this huge decrease is the decrease of supporting partners through National Employment Program. The most affected component is the Recognition of Prior Learning which brings more beneficiaries than others: Massive Vocational Training, Industrial Based Training and Rapid Response Training and Reconvention Program. The
decrease of $44.8 \%$ is important as this will have a negative impact in reaching the National Transformation Strategy I of creating 241,000 jobs by 2024. The Government is recommended to explore financing ways and ensure that the component of skills development through NEP is financed either through ordinary budget or support stakeholders.

Table 5.6: Number of refugees enrolled in TVET levell to 5 in 2018

| Description/Year | $\mathbf{2 0 1 8}$ |
| :--- | ---: |
| Total Refugee Students | $\mathbf{4 6 3}$ |
| Male | 261 |
| Female | 202 |
| \% of Male | $56.4 \%$ |
| \% of Female | $43.6 \%$ |
| Refugee Students in Public schools | $\mathbf{6 0}$ |
| Male | 45 |
| Female | 15 |
| Refugee Students in Government aided schools | $\mathbf{1 0 3}$ |
| Male | 63 |
| Female | 40 |
| Refugee Students in Private schools | $\mathbf{3 0 0}$ |
| Male | $\mathbf{1 5 3}$ |
| Female | $\mathbf{1 4 7}$ |

The high proportion of refugee's students in TVET is enrolled in private schools with $64 \%$, the lower proportion is in public schools with I2\%. As shown in table, the number of male refugees is bigger than female in TVET.
Figure 5.I: Distribution of TVET trainees by age and sex in 2018


Table 5.7: TVET level I to 7 trainees from 2016 to 2018

| Description/Year | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Total trainees | $\mathbf{9 3 , 1 5 8}$ | $\mathbf{9 0 , 0 1 5}$ | $\mathbf{9 2 , 8 3 5}$ |
| Male | 52,090 | 51,381 | 53,246 |
| Female | 41,068 | 38,634 | 39,589 |
| $\%$ of Male | $55.9 \%$ | $57.1 \%$ | $57.4 \%$ |
| \% of Female | $44.1 \%$ | $42.9 \%$ | $42.6 \%$ |
| Trainees in Public schools | $\mathbf{2 7 , 7 6 I}$ | $\mathbf{2 8 , 5 9 8}$ | $\mathbf{3 0 , 9 7 2}$ |
| Male | $\mathbf{1 7 , 3 8 1}$ | 18,648 | $20,01 \mathbf{1}$ |
| Female | 10,380 | 9,950 | 10,961 |
| Traines in Government aided schools | $\mathbf{1 2 , 4 8 4}$ | $\mathbf{1 2 , 2 0 8}$ | $\mathbf{1 2 , 1 7 0}$ |
| Male | 7,231 | 6,853 | 6,595 |
| Female | 5,253 | 5,355 | 5,575 |
| Trainees in Private schools | $\mathbf{5 2 , 9 1 3}$ | $\mathbf{4 9 , 2 0 9}$ | $\mathbf{4 9 , 6 9 3}$ |
| Male | 27,478 | 25,880 | 26,640 |
| Female | 25,435 | 23,329 | 23,053 |

The table 5.7. shows that trainees in private schools have a big share of $53.5 \%$ compare to the public and government aided schools. The trainees in public schools are $33.4 \%$ and government aided represents $13.1 \%$. This is the results of ongoing initiative of encouraging private operators to invest in TVET.

Figure 5.2: Proportion of TVET trainees by school's status in 2018


- Public

■ Government aided
Private

Table 5.8: TVET trainee's enrolment by level in 2017 and 2018

| Level | 2017 |  |  | 2018 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | Total | Male | Female | Total |
| Level I | 5,932 | 5,342 | 11,274 | 4,707 | 4,103 | 8,810 |
| Level 2 | 1,026 | 1,05 I | 2,077 | 273 | 329 | 602 |
| Level 3 | 13,590 | 11,013 | 24,603 | 16,218 | 12,514 | 28,732 |
| Level 4 | 11,011 | 8,835 | 19,846 | 10,924 | 9,437 | 20,361 |
| Level 5 | 11,94\| | 9,854 | 21,795 | 11,463 | 9,420 | 20,883 |
| Level 6 | 117 | 412 | 529 | 421 | 950 | 1,371 |
| Level 7 | 7,764 | 2,127 | 9,891 | 9,240 | 2,836 | 12,076 |
| TOTAL | 51,381 | 38,634 | 90,015 | 53,246 | 39,589 | 92,835 |

As shown in table 5.8. the phasing out of trades and closing of some schools as explained in table 5.I affected TVET enrollment in various levels. Specifically, as the level II offers bridging courses for Level I graduates, this level accommodates few students due the facts that most of Level I graduates join immediately the labor market.

Table 5.9: TVET Special Program Trainees by Type of Intervention

| Interventions | 2016-2017 | 2017-2018 |
| :---: | :---: | :---: |
| Total NEP | 17,486 | 9,650 |
| Male | 13,946 | 4,397 |
| Female | 3,540 | 5,253 |
| \% Male | 79.8\% | 45.6\% |
| \% Female | 20.2\% | 54.4\% |
| Recognition of Prior Learning | 10,283 | 347 |
| Male | 9,868 | 321 |
| Female | 415 | 26 |
| Industrial Based Training | 1,448 | 386 |
| Male | 820 | 185 |
| Female | 628 | 201 |
| Massive Vocation Training | 3,973 | 1,942 |
| Male | 2,305 | 1,241 |
| Female | 1,668 | 701 |
| Rapid Response Training | 1,300 | 1,250 |
| Male | 624 | 308 |
| Female | 676 | 942 |
| Reconversion program | 482 | 291 |
| Male | 329 | 134 |
| Female | 153 | 157 |
| Entrepreneurship and work readiness | - | 5,434 |
| Male | - | 2,208 |
| Female | - | 3,226 |

Source: NEP department
The table 5.9. shows that 7, 836 training beneficiaries generally reduced compared to previous year (from 17, 486 to 9,650 ). Specifically, 9, 549 males reduced (From 13,946 to 4,397) while $\mathrm{I}, 7 \mathrm{I} 3$ females increased (From 3,540 to 5,253). The reason behind this huge decrease is the decrease of supporting partners through National Employment Program. The most affected component is the Recognition of Prior Learning which brings more beneficiaries than others: Massive Vocational Training, Industrial Based Training and Rapid Response Training and Reconvention Program. The decrease of $44.8 \%$ is important as this will have a negative impact in reaching the National Transformation Strategy I of creating 241,000 jobs by 2024. The Government is recommended to explore financing ways and ensure that the component of skills development through NEP is financed either through ordinary budget or support stakeholders.

Table 5.10: Percentage of students enrolled in TVET level 3 after passing S3 National Exam.

| Indicator | $\mathbf{T = 2 0 1 7}$ | $\mathbf{T = 2 0 1 8}$ |
| :--- | :---: | :---: |
| Number of students passed S3 exam in T-I | $\mathbf{7 9 , 1 9 8}$ | $\mathbf{8 6 , 8 3 7}$ |
| Male | 37,886 | 41,639 |
| Female | 41,312 | 45,198 |
| Number of students registered in TVET level 3 in T | $\mathbf{2 4 , 6 0 3}$ | $\mathbf{2 8 , 7 3 2}$ |
| Male | 13,590 | 16,218 |
| Female | 11,013 | 12,514 |
| Percentage of students enrolled in TVET level 3 | $\mathbf{3 1 . 1 \%}$ | $\mathbf{3 3 . 1 \%}$ |
| Male | $35.9 \%$ | $38.9 \%$ |
| Female | $26.7 \%$ | $27.7 \%$ |

The table 5.8 reveals that students leaving lower secondary education who joined TVET increased from $31.1 \%$ in 2017 to $33.1 \%$. The Government should put more efforts in public awareness to attract a big number of students to join TVET and to scale up career guidance services in lower secondary schools' classes. Further to this, an additional investment in infrastructure (Classrooms, workshops,) as well as human resource is a requirement.

Table 5.II: TVET Trainees level I to 7 by Sector in 2018

| Sector | Number |  |  | Percentage |  |
| :--- | ---: | ---: | ---: | ---: | ---: |
|  | Male | Female | Total | \% Male | \% Female |
| Construction and Building services | 25,430 | 5,729 | $3 I, I 59$ | $8 I .6 \%$ | $18.4 \%$ |
| Technical services | 10,334 | 3,350 | 13,684 | $75.5 \%$ | $24.5 \%$ |
| Business services | $2,34 I$ | $9,91 I$ | 12,252 | $19.1 \%$ | $80.9 \%$ |
| ICT | 7,055 | 6,409 | 13,464 | $52.4 \%$ | $47.6 \%$ |
| Hospitality and tourism | 2,102 | 4,933 | 7,035 | $29.9 \%$ | $70.1 \%$ |
| Agriculture and food processing | 3,184 | 3,569 | 6,753 | $47.1 \%$ | $52.9 \%$ |
| Arts and Crafts | 1072 | 4,215 | 5,287 | $20.3 \%$ | $79.7 \%$ |
| Transportation | 786 | 372 | $1 I 58$ | $67.9 \%$ | $32.1 \%$ |
| Beauty and aesthetics | 222 | 867 | 1089 | $20.4 \%$ | $79.6 \%$ |
| Manufacturing and Mining | 497 | 92 | 589 | $84.4 \%$ | $15.6 \%$ |
| Media and Film Making | 160 | 93 | 253 | $63.2 \%$ | $36.8 \%$ |
| Energy | 63 | 49 | 112 | $56.3 \%$ | $43.8 \%$ |
| Total | 53,246 | 39,589 | 92,835 | $57.4 \%$ | $42.6 \%$ |

From the table 5. II, females represent a big share in soft trades. They are above $50 \%$ in Business services, Hospitality and Tourism, Arts and Crafts and Beauty and aesthetics. More awareness campaigns aimed at encouraging females to join technical trades should be conducted across the country.

Table 5.12: TVET graduate from 2015 to 2017.

| Indicator/ school year | 2015 | 2016 | 2017 |
| :---: | :---: | :---: | :---: |
| Total TVET graduate | 43,474 | 40,694 | 41,889 |
| Male | 26,092 | 23,847 | 24,960 |
| Female | 17,382 | 16,847 | 16,929 |
| \% of Male | 60.0\% | 58.6\% | 59.6\% |
| \% of Female | 40.0\% | 41.4\% | 40.4\% |
| Total graduate in TVET Level I and 2 | 20,480 | 17,35 I | 19,474 |
| Male | 12,680 | 10,277 | 11,974 |
| Female | 7,800 | 7,074 | 7,500 |
| \% of Male | 61.9\% | 59.2\% | 61.5\% |
| \% of Female | 38.1\% | 40.8\% | 38.5\% |
| Total students passed national examination TVET level 5 | 20,257 | 21,284 | 19,720 |
| Male | 11,118 | 12,027 | 10,973 |
| Female | 9,139 | 9,257 | 8,747 |
| \% of Male | 54.9\% | 56.5\% | 55.6\% |
| \% of Female | 45.1\% | 43.5\% | 44.4\% |
| Academic year | 2014/15 | 2015/16 | 2016/17 |
| Total graduate in TVET Level 6 and 7 | 2,737 | 2,059 | 2,695 |
| Male | 2,294 | 1,543 | 2,013 |
| Female | 443 | 516 | 682 |
| \% of Male | 83.8\% | 74.9\% | 74.7\% |
| \% of Female | 16.2\% | 25.1\% | 25.3\% |

The table 5.12 shows that graduates for Level I and II increased from I7,35I students to I9,474 students. The reason behind this increase is that more people are attracted to this training level as they are hands on skills for quick employment. On the other hands, this table shows that graduates for level 5 decreased from 21,284 students to 19,720 students. This level has been affected by the phasing out of trades from level IV as stated in table 5.I. The same table shows that graduates for Level 6 \& 7 increased from 2,059 students to 2,695 students because S 6 leavers chose TVET stream as there is more hope to get employment or be self-employed.

Table 5.13: Number of TVET Trainees with disability enrolled in 2017 and 2018

| Level | $\mathbf{2 0 1 7}$ |  |  | $\mathbf{2 0 1 8}$ |  |  |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | Male | Female | Total | Male | Female | Total |
| Level I | 153 | 137 | 290 | 83 | 104 | 187 |
| Level 2 | 7 | 10 | 17 | 2 | 2 | 4 |
| Level 3 | 82 | 67 | 149 | 66 | 52 | 118 |
| Level 4 | 23 | 14 | 37 | 35 | 29 | 64 |
| Level 5 | 33 | 29 | 62 | 65 | 45 | 110 |
| Level 6 | - | 3 | 3 | 0 | 0 | 0 |
| Level 7 | 2 | - | 2 | 3 | 3 | 6 |
| Total | $\mathbf{3 0 0}$ | $\mathbf{2 6 0}$ | $\mathbf{5 6 0}$ | $\mathbf{2 5 4}$ | $\mathbf{2 3 5}$ | $\mathbf{4 8 9}$ |

The trainees with disability was decreased from 560 to 489 respectively in 2017 and 2018 and male trainees are more present in TVET schools than female. More effort should be made and sensitization to girls with disability to attend TVET programs

Table 5.14: Number of trainees enrolled in TVET by type of disability in 2018

| Level | Hearing | Visual | Speaking | Hearing and <br> Speaking | Physical | Learning | Multiple <br> disabilities |
| :--- | ---: | ---: | ---: | :--- | ---: | ---: | :--- |
| Level I | 17 | 30 | 15 | 27 | 73 | 9 | 16 |
| Level 2 | 2 | 0 | 0 | 0 | 2 | 0 | 0 |
| Level 3 | 16 | 13 | 7 | 18 | 54 | 5 | 5 |
| Level 4 | 7 | 8 | 3 | 4 | 40 | 1 | 1 |
| Level 5 | 8 | 15 | 2 | 4 | 41 | 22 | 18 |
| Level 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Level 7 | 1 | 0 | 0 | 0 | 5 | 0 | 0 |
| Total | $\mathbf{5 1}$ | $\mathbf{6 6}$ | $\mathbf{2 7}$ | $\mathbf{5 3}$ | $\mathbf{2 1 5}$ | $\mathbf{3 7}$ | $\mathbf{4 0}$ |

The table 5:14 reveals that 44\% of students have physical disabilities. As stated in the table above, this confirms the need of physical infrastructure that facilitates learners with disabilities.

### 5.3 TVET Staff

Table 5.I5: TVET staff from 2016 to 2018

| INDICATOR/YEAR | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 I 7}$ | $\mathbf{2 0 I 8}$ |
| :--- | :---: | :---: | :---: |
| School staff | $\mathbf{5 , 0 0 3}$ | $\mathbf{6 , 9 2 9}$ | $\mathbf{6 , 6 0 7}$ |
| Male | 3,923 | 5,028 | 4,856 |
| Female | 1,080 | 1,901 | $1,75 I$ |
| \% of Male | $78.4 \%$ | $72.6 \%$ | $73.5 \%$ |
| \% of Female | $21.6 \%$ | $27.4 \%$ | $26.5 \%$ |
| Staff for Level I to 5 | $\mathbf{4 , 3 2 3}$ | $\mathbf{5 , 8 5 4}$ | $\mathbf{5 , 1 6 5}$ |
| Male | 3,332 | 4,164 | 3,684 |
| Female | $99 I$ | 1,690 | $\mathbf{I , 4 8 I}$ |
| Staff for Level 6 to 7 | $\mathbf{6 8 0}$ | $\mathbf{1 , 0 7 5}$ | $\mathbf{I , 4 4 2}$ |
| Male | 591 | 864 | $\mathbf{I}, \mathbf{I 7 2}$ |
| Female | 89 | 211 | 270 |

The table 5.15 reveals that 322 -staff reduced (From 6,929 to 6,607). The reason behind this decrease is the phasing out some trades mainly in private schools which have substandard training facilities and closure of some schools.
Table 5.16: TVET staff category by school status in 2018

| 2018 Staff | Teaching staff |  |  |  | Administrative staff |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |
|  | Male | Female | Total | Male | Female | Total |  |
| Public | $\mathrm{I}, 486$ | 343 | $\mathrm{I}, 829$ | 416 | 234 | 650 | 2,479 |
| Government aided | 442 | 139 | 58 I | 114 | 89 | 203 | 784 |
| Private | $\mathrm{I}, 845$ | $5 I 2$ | 2,357 | 553 | 434 | 987 | 3,344 |
| Total | $\mathbf{3 , 7 7 3}$ | $\mathbf{9 9 4}$ | $\mathbf{4 , 7 6 7}$ | $\mathbf{I , 0 8 3}$ | $\mathbf{7 5 7}$ | $\mathbf{I , 8 4 0}$ | $\mathbf{6 , 6 0 7}$ |

The table 5.16 shows that Government aided TVET staff constituted the least proportion (11\% approximately) followed by public TVET staff (34\% approximately). Private TVET staff (56\% approximately) represent the majority.

Table 5.17: TVET staff by qualification in 2018

| Qualification | Teaching Staff |  | Administrative staff |  | Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | Male | Female | Male | Female | Total |
| Vocational certificates | 101 | 88 | 17 | 13 | 118 | 101 | 219 |
| A3 | 52 | 37 | 9 | 12 | 61 | 49 | 110 |
| A2 | 561 | 218 | 183 | 264 | 744 | 482 | 1,226 |
| AI | 1,159 | 191 | 171 | 103 | 1,330 | 294 | 1,624 |
| Bachelors | 1,694 | 422 | 622 | 338 | 2,316 | 760 | 3,076 |
| Masters | 192 | 38 | 74 | 25 | 266 | 63 | 329 |
| PhD | 14 | - | 7 | 2 | 21 | 2 | 23 |
| Total | 3,773 | 994 | 1,083 | 757 | 4,856 | 1,75 I | 6,607 |

The table 5.17 shows a considerable number of staff $(3,076)$ have Bachelors. TVET system still has a few qualified staff with PhD and Masters. As the system grows and a need of higher levels of qualification framework, there is a need to strengthen career and professional development for TVET staff.

### 5.4 Books and textbooks in TVET

Table 5.18: Books used in TVET level I to 5 by Sector in 2018

| Sector/ Level | Level I | Level 2 | Level 3 | Level 4 | Level 5 |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Agriculture and food processing | 85 I | 45 | 4,975 | 4,853 | 5,356 |
| Arts and Crafts | 405 | 33 | 688 | 583 | 47 I |
| Beauty and aesthetics | 106 | - | 3 | - | - |
| Business services | 155 | 4 I | 3,710 | 3,272 | $3,43 \mathrm{I}$ |
| Construction and Building services | 433 | 207 | 5,039 | 4,028 | $4, \mathrm{I} 48$ |
| Energy | 2 | 1 | 34 | 40 | 49 |
| Hospitality and tourism | 394 | 12 | $\mathrm{I}, 757$ | $\mathrm{I}, 559$ | 76 I |
| ICT | 78 | 6 | 2,597 | $2,15 \mathrm{I}$ | $\mathrm{I}, 826$ |
| Manufacturing and Mining | 72 | - | 85 | 19 | 32 |
| Media and Film Making | 24 | - | 27 | 44 | 26 |
| Technical services | 427 | 290 | 1,949 | $\mathrm{I}, 555$ | $\mathrm{I}, \mathrm{I23}$ |
| Transportation | 6 | 3 | 120 | 11 l | 92 |
| Welfare Health and Social services | 17 | - | 37 | 17 | 10 |

From the table above, text books in TVET programs are generally few. For instance, there are 3 books in level III of Beauty and aesthetics trade; 34 text books in level 3 in Energy in the whole country. This is an alarming situation and hinder the quality TVET delivery. The Government and TVET stakeholders should quickly address this issue though homegrown textbooks development.

## 6 TERTIARY EDUCATION

## 6.I Tertiary institutions

The academic year for tertiary education begins in September and end in July. Data presented in this paragraph are from TVET Higher Learning Institutions or Polytechnics (equivalent to ISCED 4) and Higher Education Institutions (Level equivalent to ISCED 5,6,7, and 8). Theoretical age for this level is between 19 and 23.

Table 6.I: Number of tertiary institutions from 2016 to 2018

| DESCRIPTION/YEAR | $\mathbf{2 0 1 5 / 1 6}$ | $\mathbf{2 0 1 6 / 1 7}$ | $\mathbf{2 0 1 7 / 1 8}$ |
| :--- | ---: | ---: | ---: |
| Total Tertiary institutions | $\mathbf{4 5}$ | $\mathbf{5 4}$ | $\mathbf{4 0}$ |
| Public | 10 | 10 | 3 |
| Private | 35 | 44 | 37 |
| TVET Higher Learning Institutions | $\mathbf{1 6}$ | $\mathbf{1 7}$ | $\mathbf{1 0}$ |
| Public | 8 | 8 | 1 |
| Private | 8 | 9 | 9 |
| Higher Education Institutions | $\mathbf{2 9}$ | $\mathbf{3 7}$ | $\mathbf{3 0}$ |
| Public | 2 | 2 | 2 |
| Private | 27 | 35 | 28 |

The Tertiary Institutions in Rwanda in the academic year 2017-2018 are 40 of which 37 are private and 3 are public. It is worth noting that the statistics presented here excludes the data for the academic year 2018-2019 since the data were collected during academic year 2017-2018.

Table 6.I demonstrates a reduction in the number of Tertiary Institutions (Tls) from 54 in $2016 / 2017$ to 40 in $2017 / 2018$. The reason behind the reduction is merging of eight (8) public TVET higher learning institutions into one public institution which is Rwanda Polytechnics.

There is also a reduction in the number of Private Higher Learning Institutions (from 35 in 2016/2017 to 28 in 2017/2018). Following the Comprehensive External Audits that were conducted in 27 HLls in 2016/I7 FY, operations of 3 institutions were permanently closed because they were operating below the required norms and standards on various parameters of HLI. They include : Singhad Technical Education Society (STES), Rusizi International University (RIU) and Nile Source of Applied Arts (NSPA). The Jomo Kenyatta University of Agriculture and Technology (JKUAT)-Kigali Campus informed HEC of its decision to exit its operations from Rwanda; Open University of Tanzania (OUT) was required to stop face to face mode and strengthen the authorized ODeL mode of delivery. Furthermore, the latter informed HEC that it was going to phase out its operations in Rwanda. Although after follow-up assessments, Mahatma Gandhi University (MGUR)'s institution operations were re-opened during the data collection period, the institution was missing; the updated statistical data from MGUR was not available.

TVET Higher Learning Institutions constitute $25 \%$ of total tertiary institutions, and this is commendable figure, given direction of the government of Rwanda to produce more technicians and increase access of students to TVET programme.

### 6.2 Tertiary institutions number of students

Table 6.2: Tertiary Institution students from 2016 to 2018

| Indicator/Year | $\mathbf{2 0 1 5 / 1 6}$ | $\mathbf{2 0 1 6 / I 7}$ | $\mathbf{2 0 1 7 / 1 8}$ |
| :--- | ---: | ---: | ---: |
| Total number of students | $\mathbf{9 0 , 8 0 3}$ | $\mathbf{9 1 , 1 9 3}$ | $\mathbf{8 9 , 1 6 0}$ |
| Male | 52,297 | 49,908 | 51,119 |
| Female | 38,506 | 41,285 | $38,04 \mathrm{I}$ |
| \% of Male | $57.6 \%$ | $54.7 \%$ | $57.3 \%$ |
| \% of Female | $42.4 \%$ | $45.3 \%$ | $42.7 \%$ |
| Students in Public Tertiary institutions | $\mathbf{3 9 , 2 0 8}$ | $\mathbf{3 8 , 5 9 5}$ | $\mathbf{3 8 , 3 3 8}$ |
| Male | $27,45 \mathrm{I}$ | 25,518 | 26,247 |
| Female | 11,757 | 13,077 | $12,09 \mathrm{I}$ |
| \% of Male | $70.0 \%$ | $66.1 \%$ | $68.5 \%$ |
| \% of Female | $30.0 \%$ | $33.9 \%$ | $31.5 \%$ |
| Students in Private Tertiary institutions | $\mathbf{5 I , 5 9 5}$ | $\mathbf{5 2 , 5 9 8}$ | $\mathbf{5 0 , 8 2 2}$ |
| Male | $\mathbf{2 4 , 8 4 6}$ | 24,390 | $\mathbf{2 4 , 8 7 2}$ |
| Female | $\mathbf{2 6 , 7 4 9}$ | 28,208 | $\mathbf{2 5 , 9 5 0}$ |
| \% of Male | $48.2 \%$ | $46.4 \%$ | $48.9 \%$ |
| \% of Female | $5 I .8 \%$ | $53.6 \%$ | $51.1 \%$ |

As indicated above, a significant reduction in the students' enrolment from 91,193 in 2016/2017 to 89,165 in $2017 / 2018$ is registered in tertiary high learning institutions. A decrease of $3.3 \%$ is recorded in Private Tertiary institutions and there a significant relationship between the reduction in the number of private Tls and the number of students as indicated by the tables 6.1 and 6.2 above.

As highlighted in Annex 20, those 40 tertiary institutions are operating in 68 campuses country wide, some districts have more than 5 campuses while others do not have any tertiary institution. To provide equal opportunity in accessing tertiary institutions, district without any campuses should be privileged when opening new campuses.

On gender parity, despite numerous efforts invested to attract more female students in tertiary high learning institutions, the enrolment of females remains below that of their male counterpart. Table 6.2 indicates that $42.6 \%$ of tertiary higher learning institutions enrolments are females and 57.4\% are males.


Map 6.I: Number of Tertiary campuses by district
As Highlighted in Annex 20, those 40 tertiary institutions are operating in 68 campuses country wide, some districts have more than 5 (as shown in the map) campuses while others do not have any tertiary institutions.

Figure 6.1: Proportion of Tertiary students by institutions's status in 2017/I8


Table 6.3: Transition rate from secondary to tertiary education

| Indicator | $\mathbf{T}=\mathbf{2 0 1 6}$ |
| :--- | :---: |
| Number of students passed S6 exam in T | $\mathbf{5 7 , 8 0 4}$ |
| Male | 28,633 |
| Female | 29,171 |
| Total number of tertiary first-time new entrant students in T+I | $\mathbf{2 7 , 2 7 7}$ |
| Male | 13,423 |
| Female | 13,854 |
| Transition rate from S6 to tertiary (T+I/T) | $\mathbf{4 7 . 2 \%}$ |
| Male | $46.9 \%$ |
| Female | $47.5 \%$ |

One notices that transition from upper secondary to tertiary institutions deserves much attention as it stands at $47.2 \%$. Female students need special attention as they encounter specific challenges such as pregnancy that hinders them continuing their studies. When compared to the number enrolment in upper secondary schools (Table 4.8), percentage of female ( $51.8 \%$ ) is above males (48.2\%).

Table 6.4: Students enrolled in TVET Higher Learning Institutions from 2016 to 2018

| Indicator/Year | $\mathbf{2 0 1 5 / 1 6}$ | $\mathbf{2 0 1 6 / I 7}$ | $\mathbf{2 0 1 7 / 1 8}$ |
| :--- | ---: | ---: | ---: |
| Total students | $\mathbf{8 , 9 9 0}$ | $\mathbf{1 0 , 4 2 0}$ | $\mathbf{1 3 , 4 4 7}$ |
| Male | 6,922 | $7,88 \mathrm{I}$ | $9,66 \mathrm{I}$ |
| Female | 2,068 | 2,539 | 3,786 |
| \% of Male | $77.0 \%$ | $75.6 \%$ | $71.8 \%$ |
| \% of Female | $23.0 \%$ | $24.4 \%$ | $28.2 \%$ |
| Students in Public Tertiary institutions | $\mathbf{6 , 9 0 1}$ | $\mathbf{7 , 9 6 4}$ | $\mathbf{9 , 4 0 9}$ |
| Male | 5,555 | 6,280 | 7,162 |
| Female | 1,346 | 1,684 | 2,247 |
| \% of Male | $80.5 \%$ | $78.9 \%$ | $76.1 \%$ |
| \% of Female | $19.5 \%$ | $21.1 \%$ | $23.9 \%$ |
| Students in Private Tertiary institutions | $\mathbf{2 , 0 8 9}$ | $\mathbf{2 , 4 5 6}$ | $\mathbf{4 , 0 3 8}$ |
| Male | 1,367 | 1,601 | 2,499 |
| Female | 722 | 855 | 1,539 |
| \% of Male | $65.4 \%$ | $65.2 \%$ | $6 I .89 \%$ |
| \% of Female | $34.6 \%$ | $34.8 \%$ | $38.11 \%$ |

Table 6.4 shows the number of students enrolled in TVET higher learning institution. According to Rwanda TVET Qualification Framework (RTQF), TVET higher learning institutions in Rwanda awards Diploma at Level 6, and an Advanced Diploma at Level 7.

In 2017-20I8, the number of students enrolled represented $15.08 \%$ of all enrolment in tertiary institutions. There is an increase of $3.68 \%$ when compared to academic year 2016-2017 (II.4\%). Public TVET higher learning institutions registered a great number of students compared $(9,409)$
to number of students in private TVET institutions $(4,038)$, of which the public TVET tertiary students constitute 57.1\%.

As indicated in Table 6.4 above, $71.8 \%$ of all TVET Students enrolled in TVET Higher Learning Institutions are males while $\mathbf{2 8 . 2 \%}$ are females. The low enrolment of girls in TVET higher learning institutions is much attributed to culture that has always discouraged girls from joining work that requires strenuous physical energy. It is therefore imperative to look for innovative ways to encourage girls join TVET.

Table 6.5: Students enrolled in Higher Education Institutions

| Indicator/Year | 2015/16 | 2016/17 | 2017118 |
| :---: | :---: | :---: | :---: |
| Total students | 81,813 | 80,773 | 75,713 |
| Male | 45,375 | 42,027 | 41,458 |
| Female | 36,438 | 38,746 | 34,255 |
| \% of Male | 55.46\% | 52.03\% | 54.8\% |
| \% of Female | 44.54\% | 47.97\% | 45.2\% |
| Students in Public Higher Education Institutions | 32,307 | 30,631 | 28,929 |
| Male | 21,896 | 19,238 | 19,085 |
| Female | 10,411 | 11,393 | 9,844 |
| \% of Male | 67.77\% | 62.81\% | 66.0\% |
| \% of Female | 32.23\% | 37.19\% | 34.0\% |
| Students in Private Higher Education Institutions | 49,506 | 50,142 | 46,784 |
| Male | 23,479 | 22,789 | 22,373 |
| Female | 26,027 | 27,353 | 24,411 |
| \% of Male | 47.43\% | 45.45\% | 47.8\% |
| \% of Female | 52.57\% | 54.55\% | 52.2\% |

Table 6.5 shows students' enrolment in Higher Education from academic year 2015/2016 to $2017 / 2018$. As indicated by the table, there is continuous reduction in the number of students enrolled in higher learning institutions from 80,773 in $2016 / 2017$ to 75,713 in 2017/2018. A reduction of $6.2 \%$ is registered in academic year $2017 / 2018$. This may be attributed to the closure of some universities that did not comply with the external audit recommendation.

In all three academic years (2015/16-2017/I8), the share of students' enrolment in private higher education institutions has continuously dominated student's enrolment compared to public higher learning institution. As indicated by the table 6.4, the enrolment in private higher learning institutions in the academic year 2017/2018 represent 61.8\%, indicating a huge investment of the private sector in higher learning institutions.

Notwithstanding, the reasons why growth is stronger in the private sector may be finance related of which some arguments are related to increase in tuition fees to courses offered by public
higher education institutions which almost doubles the price of those available in private universities. This may put off students who are neither receiving state funding nor having chosen a course of study that is not subsidised in recognition of a link with development priorities.

The rapid growth of the sector suggests most prospective students are opting to enrol in cheaper courses in private institutions.
The continuous increase of private sector in higher learning institutions calls for setting up appropriate standards to ensure quality learning in the private higher learning institutions.

Higher increase of males than female enrolment continues to dominate the attendance in the higher education institutions with $54.8 \%$. This is the fact that public higher learning institutions have increasingly remained the choice of males' enrolment representing $66.0 \%$. Female students are at higher enrolment with $52.2 \%$ in private higher learning institutions.

Although continued increase of females in private higher learning institutions is attributed to excellent track record of gender parity in education sector, much efforts needs to be deployed to increase the females' enrolment in public higher education institutions.

Table 6.6: Tertiary institution students enrolled in 2017/I8 by field of education

| Field of Education | Male | Female | Total | \% by field |
| :--- | :---: | :---: | :---: | ---: |
| Business, Administration and Law | $13,36 \mathrm{I}$ | 16,047 | 29,408 | $33.0 \%$ |
| Engineering, Manufacturing and construction | $11,39 \mathrm{I}$ | 2,850 | $14,24 \mathrm{I}$ | $16.0 \%$ |
| Education | $5,5 \mathrm{I} 3$ | 3,425 | 8,938 | $10.0 \%$ |
| Services | 3,952 | 4,736 | 8,688 | $9.7 \%$ |
| Health and Welfare | 4,442 | 3,809 | $8,25 \mathrm{I}$ | $9.3 \%$ |
| Information and Communication Technologies | 4,930 | 2,610 | 7,540 | $8.5 \%$ |
| Social Sciences, journalism and information | $2,86 \mathrm{I}$ | 2,140 | $5,00 \mathrm{I}$ | $5.6 \%$ |
| Natural Sciences, Mathematics and Statistics | 2,020 | 964 | 2,984 | $3.3 \%$ |
| Agriculture, Forestry, fisheries and veterinary | $\mathbf{I , 7 2 5}$ | $\mathbf{8 5 I}$ | 2,576 | $2.9 \%$ |
| Arts and humanities | $\mathbf{9 2 4}$ | 609 | $\mathbf{I , 5 3 3}$ | $\mathbf{I . 7 \%}$ |
| Total | $\mathbf{5 I , I I 9}$ | $\mathbf{3 8 , 0 4 I}$ | $\mathbf{8 9 , 1 6 0}$ | $\mathbf{1 0 0 \%}$ |

As indicated by the table 6.6, the courses offered tertiary institutions have been grouped to ten (IO) major groups based on International Standard Classification for Education (ISCED). The data shows Business, Administration and Law domain, dominates high enrolment of students in higher education with the proportion of $33.0 \%$, Engineering, Manufacturing and construction takes the second position with $16.0 \%$, whereas Arts and humanities takes $1.7 \%$.

Table 6.7: Tertiary GER and students per 100,000 inhabitants

| Indicator/Year | $\mathbf{2 0 1 5 / 1 6}$ | $\mathbf{2 0 1 6 / 1 7}$ | $\mathbf{2 0 1 7 / 1 8}$ |
| :--- | ---: | ---: | ---: |
| GER | $\mathbf{8 . 3 \%}$ | $\mathbf{8 . 1 \%}$ | $\mathbf{7 . 8 \%}$ |
| Male | $9.7 \%$ | $9.1 \%$ | $9.1 \%$ |
| Female | $6.9 \%$ | $7.2 \%$ | $6.5 \%$ |
| Students per $\mathbf{1 0 0 , 0 0 0}$ inhabitants | $\mathbf{7 8 7}$ | $\mathbf{7 7 2}$ | $\mathbf{7 3 7}$ |
| Male | 937 | 872 | 872 |
| Female | 647 | 678 | 611 |

Gross enrolment rate and the number of students enrolled in tertiary education decreased between $2016 / 17$ and $2017 / 18$ from $8.1 \%$ to $7.8 \%$. This is below the target (9.1\%). This is linked to the decrease in number of students in tertiary education due to suspension of some higher learning institutions as result of the latter not complying with the standards. Figure 6.2 below illustrates the distribution of tertiary students by age and sex.

Figure 6.2: Distribution of tertiary students by age and sex in 2018


As shown in the above pyramid, the big number of tertiary institution students are between $21-$ 28 years, for male and female. Generally, there is a big number of male enrolled in tertiary education than female. From 30-34 the number of students attending in tertiary education become high, this may be due to students having jobs who continues their studies.

Table 6.8: Tertiary graduates from 2015 to 2017

| DESCRIPTION/YEAR | 2014/15 | 2015/16 | 2016/17 |
| :---: | :---: | :---: | :---: |
| Total graduates in Tertiary Education | 22,706 | 23,635 | 23,100 |
| Male | 13,026 | 12,774 | 12,718 |
| Female | 9,680 | 10,861 | 10,382 |
| \% Male | 57.4\% | 54.0\% | 55.1\% |
| \% Female | 42.6\% | 46.0\% | 44.9\% |
| In Public institutions | I 1,272 | 10,720 | 1 1,140 |
| Male | 8,050 | 7,185 | 7,245 |
| Female | 3,222 | 3,535 | 3,895 |
| \% Male | 71.4\% | 67.0\% | 65.0\% |
| \% Female | 28.6\% | 33.0\% | 35.0\% |
| In Private institutions | 11,434 | 12,915 | 11,960 |
| Male | 4,976 | 5,589 | 5,473 |
| Female | 6,458 | 7,326 | 6,487 |
| \% Male | 43.5\% | 43.3\% | 45.8\% |
| \% Female | 56.5\% | 56.7\% | 54.2\% |

A total of 23,100 graduates were recorded during 2016/I7academic year. Male are than female in public while in private institutions the reverse is observed.

Table 6.9: TVET Higher Learning graduates in 2015 to 2017

| DESCRIPTION/YEAR | $\mathbf{2 0 1 4 / 1 5}$ | $\mathbf{2 0 1 5 / 1 6}$ | $\mathbf{2 0 1 6 / 1 7}$ |
| :--- | ---: | ---: | ---: |
| Total graduates in TVET Higher Learning | $\mathbf{2 , 7 3 7}$ | $\mathbf{2 , 0 5 9}$ | $\mathbf{2 , 6 9 5}$ |
| Male | 2,294 | $\mathbf{1 , 5 4 3}$ | 2,013 |
| Female | 443 | 516 | 682 |
| \% Male | $83.8 \%$ | $74.9 \%$ | $74.7 \%$ |
| \% Female | $16.2 \%$ | $25.1 \%$ | $25.3 \%$ |
| In Public institutions | $\mathbf{2 , 6 9 0}$ | $\mathbf{1 , 8 1 9}$ | $\mathbf{2 , 3 1 4}$ |
| Male | 2,294 | 1,477 | 1,812 |
| Female | 396 | 342 | 502 |
| \% Male | $85.3 \%$ | $81.2 \%$ | $78.3 \%$ |
| \% Female | $14.7 \%$ | $18.8 \%$ | $21.7 \%$ |
| In Private institutions | $\mathbf{4 7}$ | $\mathbf{2 4 0}$ | $\mathbf{3 8 1}$ |
| Male | - | 66 | 201 |
| Female | 47 | 174 | 180 |
| \% Male | $0.0 \%$ | $27.5 \%$ | $52.8 \%$ |
| \% Female | $100.0 \%$ | $72.5 \%$ | $47.2 \%$ |

TVET Higher Learning graduates was increased from 2,059 in 2015/16 to 2695 in 2016/17, the percentage of female graduated increased from $25.1 \%$ in $2015 / 16$ to $25.3 \% 2016 / 17$ while that of male reduced $74.9 \%$ in $2015 / 16$ to $74.7 \%$ 2016/20I7.

Table 6.10: Higher Education Graduates from 2015 to 2017

| DESCRIPTION/YEAR | 2014/15 | 2015/16 | 2016/17 |
| :---: | :---: | :---: | :---: |
| Total graduates in Higher Education | 19,969 | 21,576 | 20,405 |
| Male | 10,732 | 11,231 | 10,705 |
| Female | 9,237 | 10,345 | 9,700 |
| \% Male | 53.7\% | 52.1\% | 52.5\% |
| \% Female | 46.3\% | 47.9\% | 47.5\% |
| In Public institution | 8,582 | 8,901 | 8,826 |
| Male | 5,756 | 5,708 | 5,433 |
| Female | 2,826 | 3,193 | 3,393 |
| \% Male | 67.1\% | 64.1\% | 61.6\% |
| \% Female | 32.9\% | 35.9\% | 38.4\% |
| In Private institutions | 11,387 | 12,675 | 11,579 |
| Male | 4,976 | 5,523 | 5,272 |
| Female | 6,41I | 7,152 | 6,307 |
| \% Male | 43.7\% | 43.6\% | 45.5\% |
| \% Female | 56.3\% | 56.4\% | 54.5\% |

The number of higher learning graduates decreased by $5 \%$ in 2016/17 compared to those graduated in 2015/16. The number male graduates are bigger than that of female graduates in these two academic years.

Table 6.11: Tertiary graduates by exit award in 2016 and 2017

| Exit award | 2015/16 |  |  | 2016/17 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | Total | Male | Female | Total |
| Certificate | 41 | 52 | 93 | 183 | 162 | 345 |
| Diploma | 639 | 484 | I,123 | 1,119 | I,127 | 2,246 |
| Advanced Diploma | 1,793 | 978 | 2,771 | 1,782 | 576 | 2,358 |
| Bachelor's Degree | 9,047 | 8,725 | 17,772 | 8,362 | 7,755 | 16,117 |
| Postgraduate Certificate | 111 | 44 | 155 | 23 | 15 | 38 |
| Postgraduate Diploma | 536 | 262 | 798 | 426 | 226 | 652 |
| Masters | 605 | 316 | 921 | 820 | 518 | 1,338 |
| PhD | 2 | - | 2 | 3 | 3 | 6 |
| Total | 12,774 | 10,86 I | 23,635 | 12,718 | 10,382 | 23,100 |

In the academic year 2016/17, majority of graduates were for bachelor's degree, while the last was PhD represented by only 6 graduates.

Table 6.12: Tertiary graduates by fields of education in 2016 and 2017

| Field of education | 2015/16 |  |  | 2016/17 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | Total | Male | Female | Total |
| Education | 2,565 | 2,001 | 4,566 | 2,82I | 2,189 | 5,010 |
| Arts and humanities | 148 | 64 | 212 | 319 | 121 | 440 |
| Social Sciences, journalism and information | 630 | 508 | I,138 | 719 | 658 | 1,377 |
| Business, Administration and Law | 3,807 | 4,881 | 8,688 | 2,915 | 3,651 | 6,566 |
| Natural Sciences, Mathematics and Statistics | 886 | 481 | I,367 | 674 | 459 | I,133 |
| Information and Communication Technologies | 1,908 | 636 | 2,544 | 954 | 561 | I,515 |
| Engineering, Manufacturing and construction | 673 | 230 | 903 | 2,267 | 583 | 2,850 |
| Agriculture, Forestry, fisheries and veterinary | 667 | 281 | 948 | 598 | 333 | 931 |
| Health and Welfare | 960 | 1,193 | 2,153 | 930 | 1,256 | 2,186 |
| Service | 530 | 586 | 1,116 | 521 | 571 | 1,092 |
| TOTAL | 12,774 | 10,861 | 23,635 | 12,718 | 10,382 | 23,100 |

Analyzing the graduates by fields of education, there are more graduates in the field Business, Administration and Law with 6566 graduates, the field of education with low number being that of Arts and humanities with 440 graduates.

Table 6.13: Number of students with disability enrolled in tertiary education

|  | $2016 / 17$ |  |  | $2017 / 18$ |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Type of disability | Male | Female | Total | Male | Female | Total |
| Hearing | 8 | 11 | 19 | 11 | 7 | 18 |
| Visual | 14 | 12 | 26 | 8 | 6 | 14 |
| Speaking | 9 | 2 | 11 | 2 | 1 | 3 |
| Hearing and Speaking | 0 | 0 | 0 | 1 | 2 | 3 |
| Physical | 52 | 32 | 84 | 75 | 59 | 134 |
| Learning | 3 | 0 | 3 | 0 | 0 | 0 |
| Multiple disabilities | 4 | 7 | 11 | 1 | 0 | 1 |
| Total | 90 | $\mathbf{6 4}$ | 154 | $\mathbf{9 8}$ | $\mathbf{7 5}$ | $\mathbf{1 7 3}$ |

Table 6.13 shows the number of tertiary students with disability by sex and types of disability enrolled in 2016/17 and 2017/18. That of male outnumbers that of female. Physical disability was most reported of all reported disabilities.

### 6.3 Tertiary staff

This section presents statistics of staff by gender from both private and public tertiary institutions for the academic year 2016/17 and 2017/18.

Table 6.14: Number of tertiary staff

| Indicator/Year | $\mathbf{2 0 1 6 / I 7}$ | $\mathbf{2 0 I 7 I I 8}$ |
| :--- | ---: | ---: |
| Total staff | $\mathbf{6 , 2 7 I}$ | $\mathbf{6 , 3 3 5}$ |
| Male | 4,652 | 4,758 |
| Female | 1,619 | 1,577 |
| \% of Male | $74.2 \%$ | $75.1 \%$ |
| \% of Female | $25.8 \%$ | $24.9 \%$ |
| Staff in Public Tertiary institutions | $\mathbf{2 , 9 5 8}$ | $\mathbf{3 , 1 3 I}$ |
| Male | 2,175 | 2,339 |
| Female | 783 | 792 |
| \% of Male | $73.5 \%$ | $74.7 \%$ |
| \% of Female | $26.5 \%$ | $25.3 \%$ |
| Staff in Private Tertiary institutions | $\mathbf{3 , 3 1 3}$ | 3,204 |
| Male | 2,477 | 2,419 |
| Female | 836 | 785 |
| \% of Male | $74.8 \%$ | $75.5 \%$ |
| \% of Female | $25.2 \%$ | $24.5 \%$ |

The number of staff in tertiary education institutions generally has increased in 2017/18 compared to that of 2016/17 hereby $1 \%$, as shown in the table 6.14 the percentage of male working in tertiary education institutions was increased by $2 \%$ while that of female working in tertiary education institutions increased by $2 \%$ in these two academic years.

Table 6.15: Number of tertiary academic staff

| Indicator/Year | $\mathbf{2 0 1 6 / 1 7}$ | $\mathbf{2 0 1 7 / 1 8}$ |
| :--- | ---: | ---: |
| Total academic staff | $\mathbf{4 , 0 9 4}$ | $\mathbf{4 , 0 8 6}$ |
| Male | 3,294 | 3,324 |
| Female | 800 | 762 |
| \% of Male | $80.5 \%$ | $81.4 \%$ |
| \% of Female | $19.5 \%$ | $18.6 \%$ |
| Academic staff in Public Tertiary institutions | $\mathbf{I , 9 7 7}$ | $\mathbf{2 , 0 6 6}$ |
| Male | $\mathbf{I , 5 5 6}$ | 1,665 |
| Female | 421 | 401 |
| \% of Male | $78.7 \%$ | $80.6 \%$ |
| \% of Female | $21.3 \%$ | $19.4 \%$ |
| Academic staff in Private Tertiary institutions | $\mathbf{2 , 1 1 7}$ | $\mathbf{2 , 0 2 0}$ |
| Male | 1,738 | 1,659 |
| Female | 379 | 361 |
| \% of Male | $82.1 \%$ | $82.1 \%$ |
| \% of Female | $17.9 \%$ | $17.9 \%$ |

Generally, the number of tertiary academic staff decreased from 2017/18 compared to that of $2016 / 17$ by 8 staff. There is a large number of male working in tertiary institutions than female hereby a difference of 2,494 in 2016/16 and 2,562 in 2017/I8 as presented in Table 6.15 above.

More emphasis should be made to raise the number of female working as academic staff in tertiary education, for instance facilitating them to study higher education levels to qualify for university and other higher degrees to engage gender balance in these sector as well as serving as role models for girls and women in education in career path encouragement for the youth.

Table 6.16: Number of administrative staff in tertiary institutions

| Indicator/Year | $\mathbf{2 0 1 6 / I 7}$ | $\mathbf{2 0 1 7 / 1 8}$ |
| :--- | ---: | ---: |
| Total administrative staff | $\mathbf{2 , 1 7 7}$ | $\mathbf{2 , 2 4 9}$ |
| Male | $\mathbf{I , 3 5 8}$ | $\mathbf{1 , 4 3 4}$ |
| Female | 819 | 815 |
| \% of Male | $62.4 \%$ | $63.8 \%$ |
| \% of Female | $37.6 \%$ | $36.2 \%$ |
| Administrative staff in Public Tertiary institutions | $\mathbf{9 8 1}$ | $\mathbf{1 , 0 6 5}$ |
| Male | 619 | 674 |
| Female | 362 | 391 |
| \% of Male | $63.1 \%$ | $63.3 \%$ |
| \% of Female | $36.9 \%$ | $36.7 \%$ |
| Administrative staff in Private Tertiary institutions | $\mathbf{I , 1 9 6}$ | $\mathbf{1 , 1 8 4}$ |
| Male | 739 | 760 |
| Female | 457 | 424 |
| \% of Male | $6 I .8 \%$ | $64.2 \%$ |
| \% of Female | $38.2 \%$ | $35.8 \%$ |

Generally, the number of administrative staff in tertiary institutions increased by $3 \%$ in 2017/18 compared to 2016/I7, however the percentage of female employed in these institutions decreased by $0.4 \%$ in 2017/18 compared to 2016/17 while the percentage of males increased by $5 \%$ in2017/I8 compared to 2016/I7.

Table 6.17: Number of Tertiary staff by level of education in 2017/18

| Qualification | Number of staff |  |  | Percentage |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | Total | Male | Female | Total |
| Total staff | 4,758 | 1,577 | 6,335 | 100\% | 100\% | 100\% |
| PhDs | 753 | 104 | 857 | 15.8\% | 6.6\% | 13.5\% |
| Masters | 1,958 | 587 | 2,545 | 41.2\% | 37.2\% | 40.2\% |
| Bachelors | 1,345 | 632 | 1,977 | 28.3\% | 40.1\% | 31.2\% |
| Below Bachelors | 702 | 254 | 956 | 14.8\% | 16.1\% | 15.1\% |
| Total Academic staff | 3,324 | 762 | 4,086 | 100\% | 100\% | 100\% |
| PhDs | 683 | 93 | 776 | 20.5\% | 12.2\% | 19.0\% |
| Masters | 1,670 | 434 | 2,104 | 50.2\% | 57.0\% | 51.5\% |
| Bachelors | 742 | 209 | 951 | 22.3\% | 27.4\% | 23.3\% |
| Below Bachelors | 229 | 26 | 255 | 6.9\% | 3.4\% | 6.2\% |
| Total administrative staff | 1,434 | 815 | 2,249 | 100\% | 100\% | 100\% |
| PhDs | 70 | 11 | 81 | 4.9\% | I.3\% | 3.6\% |
| Masters | 288 | 153 | 44I | 20.1\% | 18.8\% | 19.6\% |
| Bachelors | 603 | 423 | 1,026 | 42.1\% | 51.9\% | 45.6\% |
| Below Bachelors | 473 | 228 | 701 | 33.0\% | 28.0\% | 31.2\% |

The level of education of tertiary staff differ based on occupation, position held and responsibilities. Generally, the high proportion of tertiary staff is made of master's degree holders with $40.2 \%$ and the low proportion is for PhDs with $13.5 \%$.

In academic staff, the high proportion is also made of master's degree holders with $51.5 \%$ while the lowest percentage in this category is made of qualifications Below Bachelors' degree with $6.2 \%$. The administrative staff is dominated by Bachelors' degree holders with $45.6 \%$ with the lowest percentage of staff observed in this category being PhDs with $3.6 \%$

### 6.4 Computer in Tertiary Education

Table 6.18: Number of computers in Tertiary institution

| INDICATOR/YEAR | $\mathbf{2 0 1 6 / 1 7}$ | $\mathbf{2 0 1 7 / 1 8}$ |
| :--- | ---: | ---: |
| Total Number of computers | $\mathbf{3 0 , 7 8 I}$ | $\mathbf{2 9 , 3 6 5}$ |
| Public institutions | 19,843 | 19,265 |
| Private institutions | 10,938 | 10,100 |
| Computers for students | $\mathbf{2 3 , 4 4 3}$ | $\mathbf{2 2 , 3 1 6}$ |
| Public institutions | 14,517 | 13,955 |
| Private institutions | 8,926 | $8,36 \mathrm{I}$ |
| Computers for academic staff | $\mathbf{5 , 1 2 4}$ | $\mathbf{4 , 9 5} \mathrm{I}$ |
| Public institutions | 4,246 | 4,163 |
| Private institutions | 878 | 788 |
| Computers for administrative staff | $\mathbf{2 , 2 1 4}$ | $\mathbf{2 , 0 9 8}$ |
| Public institutions | $\mathbf{I , 0 8 0}$ | 1,147 |
| Private institutions | $\mathrm{I}, \mathrm{I34}$ | 95 I |

Generally, the number of computers in Tertiary education decreased by $4.6 \%$ in 2017/18 compared to 2016/17 in private as well as in public institutions. The number of computers for students decreased by $4.8 \%$ in 2017/18 compared to $2016 / 17$ in private as well as in public institutions. While computers for academic staff decreased by $9 \%$ in 2017/18 compared to 2016/17 in private as well as in public institutions. Computers for administrative staff decreased by $5 \%$ in 2017/18 compared to 2016/17 in general.

Table 6.19: Number of user per computer in tertiary institutions

| INDICATOR/YEAR | $\mathbf{2 0 1 6 / 1 7}$ | $\mathbf{2 0 1 7 / 1 8}$ |
| :--- | ---: | ---: |
| Users per Computers | $\mathbf{3}$ | $\mathbf{3}$ |
| Public institutions | 2 | 2 |
| Private institutions | 5 | 5 |
| Ratio students per computer | 4 | $\mathbf{4}$ |
| Public institutions | 3 | 3 |
| Private institutions | 6 | 6 |
| Ratio academic staff per Computer | I | I |
| Public institutions | I | I |
| Private institutions | 2 | 3 |
| Ratio administrative staff per computer | I | I |
| Public institutions | I | I |
| Private institutions | I | I |

In Tertiary Education, computer-student's ratios are 4:I, I:I, and I:I respectively for students, academic staff and administrative staff. The ESSP target (4:I) was achieved in tertiary education for students per computer.

## 7 ADULT LITERACY EDUCATION

Adult education in Rwanda is designed for people aged 15 and above to learn basic reading and numeracy. In this paragraph we will only focus on those attending institutionalized center. According to the structure of this level there is no equivalent level in the international standard classification for education

## 7.I Adult literacy infrastructure

Table 7.I: Adult Literacy centres from 2016 to 2018

| Indicators $/$ Year | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Centres | $\mathbf{4 , 6 5 4}$ | $\mathbf{5 , 1 6 0}$ | $\mathbf{4 , 9 9 I}$ |
| Public | 1,363 | 1,447 | 1,418 |
| Private | 2,047 | 1,214 | 815 |
| Government aided | 1,244 | 2,499 | 2,758 |
| Percentage | $\mathbf{1 0 0 \%}$ | $\mathbf{1 0 0 \%}$ | $\mathbf{1 0 0 \%}$ |
| Public | $29.3 \%$ | $28.0 \%$ | $28.4 \%$ |
| Private | $44.0 \%$ | $23.5 \%$ | $16.3 \%$ |
| Government aided | $26.7 \%$ | $48.4 \%$ | $55.3 \%$ |

The number of adult literacy centers increased from 4,654 in 2016 to 5,160 in 2017, and then decreased in 2018 to 4991 literacy centers.

The number of Government aided literacy centers was increased and outnumbered other categories representing $55.3 \%$ in 2018 , followed by the public literacy centers with $28.4 \%$ and private represents 16.3\%.

Table 7.2: Number of Adult Literacy Centres, by owner in 2016 and 2018

| Number of centers by Owner/Year | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Total Centers | $\mathbf{4 , 6 5 4}$ | $\mathbf{5 , 1 6 0}$ | $\mathbf{4 , 9 9 1}$ |
| Churches | $2,74 \mathrm{I}$ | 2,745 | 2,899 |
| Government | 1,676 | 2,129 | 1,947 |
| NGOs | 169 | 202 | $\mathbf{1 4 5}$ |
| Projects | 68 | 84 | 0 |
| Percentage | $\mathbf{1 0 0 \%}$ | $\mathbf{1 0 0 \%}$ | $\mathbf{1 0 0 \%}$ |
| Churches | $58.9 \%$ | $53.2 \%$ | $58.1 \%$ |
| Government | $36.0 \%$ | $41.3 \%$ | $39.0 \%$ |
| NGOs | $3.6 \%$ | $3.9 \%$ | $2.9 \%$ |
| Projects | $\mathbf{I . 5 \%}$ | $\mathbf{I . 6 \%}$ | $0.0 \%$ |

58.1\% of adult literacy centers are owned by Churches; $39.0 \%$ by Government while adult literacy centers of NGOS represent $2.9 \%$. This illustrates the important role of Government and Churches in adult literacy program and demonstrates that the private sector needs to be sensitized for participation in this field.

Table 7.3: Adult Literacy desks from 2016 to 2018

| Indicators / Year | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Number of desks | $\mathbf{3 5 , 0 6 8}$ | $\mathbf{3 5 , 1 8 3}$ | $\mathbf{3 5 , 2 6 I}$ |
| Public | 8,812 | 7,760 | 8,576 |
| Private | 15,337 | 7,934 | 4,970 |
| Government aided | 10,919 | 19,489 | 21,715 |
| Learners per desk | $\mathbf{4}$ | $\mathbf{4}$ | $\mathbf{4}$ |
| Public | 4 | 6 | 4 |
| Private | 4 | 4 | 4 |
| Government aided | 3 | 4 | 3 |

The number of desks increased across the years from 35,068 desks in 2016 to 35,261 desks in 2018. The overall learners per desk is seems to be high :4 learners per desks but this is because most of adult literacy centres uses benches not standards desks for basic education

### 7.2 Adult literacy learners

Table 7.4: Adult Literacy learners in 2016 and 2018

| Indicator/Year | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Total learners | $\mathbf{I 2 6 , 1 6 5}$ | $\mathbf{1 5 2 , 0 1 5}$ | $\mathbf{1 3 2 , 3 6 5}$ |
| Male | 49,293 | $6 I, 556$ | 51,220 |
| Female | 76,872 | 90,459 | 81,145 |
| \% of Male | $39.1 \%$ | $40.5 \%$ | $38.7 \%$ |
| \% of Female | $60.9 \%$ | $59.5 \%$ | $61.3 \%$ |
| Learners in public centres | $\mathbf{3 8 , 4 9 5}$ | $\mathbf{4 3 , 7 9 I}$ | $\mathbf{3 7 , 0 2 0}$ |
| Male | 14,649 | $17,43 \mathrm{I}$ | 14,169 |
| Female | 23,846 | 26,360 | $22,85 \mathrm{I}$ |
| \% of Male | $38.1 \%$ | $39.8 \%$ | $38.3 \%$ |
| \% of Female | $61.9 \%$ | $60.2 \%$ | $61.7 \%$ |
| Learners in private centres | $\mathbf{5 7 , 2 7 5}$ | $\mathbf{3 5 , 0 4 3}$ | $\mathbf{1 8 , 0 8 6}$ |
| Male | 22,745 | 14,899 | $7,03 \mathrm{I}$ |
| Female | 34,530 | 20,144 | 11,055 |
| \% of Male | $39.7 \%$ | $42.5 \%$ | $38.9 \%$ |
| \% of Female | $60.3 \%$ | $57.5 \%$ | $61.1 \%$ |
| Learners in Government aided centres | $\mathbf{3 0 , 3 9 5}$ | $\mathbf{7 3 , 1 8 I}$ | $\mathbf{7 7 , 2 5 9}$ |
| Male | $\mathbf{I I , 8 9 9}$ | 29,226 | 30,020 |
| Female | 18,496 | 43,955 | 47,239 |
| \% of Male | $39.1 \%$ | $39.9 \%$ | $38.9 \%$ |
| \% of Female | $60.9 \%$ | $60.1 \%$ | $61.1 \%$ |

The number of literacy learners has increased for two years ago from 126,165 in 2016 to 152,015 in 2017 but in 2018 it has decreased to 132,365 . This fluctuation is observed for both Male (from 49,293 in 2016 to 61,556 in 2017 and 51,220 in 2018) and Female (from 76,872 in 2016 to 90,459 in 2017 and 81,145 in 2018). Although there is an increase of total learners in 2017 and a decrease in 2018 for both male and female.

Figure 7.1: Proportion of adult literacy learners by center's status in 2018


The proportion of adult literacy learners by centers' status is proportional to the the number of Centers by status. The high proportion of adult literacy is enrolled in government aided centers with $58.4 \%$, followed by public centers with $28 \%$ while the private centers have $13.7 \%$

Figure 7.2: Distribution of learners in adult literacy centers by age and sex in 2018


Most of the people who attend literacy program are in the age range between 25 and 45 years. For the age under 25 years the low attendance can be explained because the literacy rate at this level is high, but at the age of 45 year and above the attendance still lower this is related to the mindset of the people at this age who believe that there is no need of learning at this age.

In general, the number of illiterate people who join literacy program still low compared to the number of illiterate people countrywide. Some of those who attend the program don't complete it and for old person they pretend that they pretend that is too late to join the centres to learn read and write.

Table 7.5: Adult Literacy learners who received their certificate in 2015 to 2017

| Indicator/Year | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ |
| :--- | ---: | ---: | :--- |
| Total graduate | $\mathbf{7 5 , 9 9 3}$ | $\mathbf{1 0 3 , 1 6 4}$ | $\mathbf{9 4 , 2 7 7}$ |
| Male | $34, \mathrm{III}$ | 43,937 | 38,645 |
| Female | $4 \mathrm{I}, 882$ | 59,227 | 55,632 |
| \% of Male | $44.9 \%$ | $42.6 \%$ | $41.0 \%$ |
| \% of Female | $55.1 \%$ | $57.4 \%$ | $59.0 \%$ |

The number of graduates increased from 75,993 in 2015 to 103,164 in 2016 and decreased in 2017 to 94,277 . This demonstrates that illiterate adults have begun to understand the importance of literacy in their daily life and a considerable number of them join the literacy program. However, a considerable number of learners enrolled in literacy program doesn't complete it.

Figure 7.3: Comparison of enrolled learners and those graduated


Among 95,829 learners, 126,165 learners, and 152,015 learners enrolled in literacy program respectively in 2015, 2016 and 2017 only 75,993 learners, 103,164 learners and 94,277 learners complete the program; in average $20 \%$ of those enrolled do not complete the program.

Figure 7.4: Percentage of graduate compare to the enrolment


The overall percentage decrease across the year from $79.3 \%$ in 2015 to $62.0 \%$ in 2018 . Man are more likely to complete the program than female, in 2018 62.8\% of man complete the program compare to $61.5 \%$ of female.

### 7.3 Adult literacy instructors

Table 7.6: Adult literacy instructors from 2016 to 2018

| INDICATOR/YEAR | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Total instructors | $\mathbf{5 , 7 2 5}$ | $\mathbf{6 , 2 8 7}$ | $\mathbf{6 , 0 7 2}$ |
| Male | 3,652 | 4,006 | 3,822 |
| Female | 2,073 | $2,28 \mathrm{I}$ | 2,250 |
| \% of Male | $63.8 \%$ | $63.7 \%$ | $62.9 \%$ |
| \% of Female | $36.2 \%$ | $36.3 \%$ | $37.1 \%$ |
| Instructors in public centres | $\mathbf{I , 6 4 0}$ | $\mathbf{I , 7 3 8}$ | $\mathbf{1 , 7 1 6}$ |
| Male | $\mathbf{I , 0 3 7}$ | $\mathrm{I}, 036$ | 987 |
| Female | 603 | 702 | 729 |
| \% of Male | $63.2 \%$ | $59.6 \%$ | $57.5 \%$ |
| \% of Female | $36.8 \%$ | $40.4 \%$ | $42.5 \%$ |
| Instructors in private centres | $\mathbf{2 , 5 0 I}$ | $\mathbf{I , 4 4 6}$ | $\mathbf{I , 0 2 6}$ |
| Male | $\mathbf{I , 6 2 4}$ | 95 I | 662 |
| Female | 877 | 495 | 364 |
| \% of Male | $64.9 \%$ | $65.8 \%$ | $65.8 \%$ |
| \% of Female | $35.1 \%$ | $34.2 \%$ | $34.2 \%$ |
| Instructors in Government aided centres | $\mathbf{I , 5 8 4}$ | $\mathbf{3 , 1 0 3}$ | $\mathbf{3 , 3 3 0}$ |
| Male | 99 I | 2,019 | 2,173 |
| Female | 593 | $\mathbf{I , 0 8 4}$ | $\mathrm{I}, \mathrm{I} 57$ |
| \% of Male | $62.6 \%$ | $65.1 \%$ | $65.3 \%$ |
| \% of Female | $37.4 \%$ | $34.9 \%$ | $34.7 \%$ |


| INDICATOR/YEAR | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Instructors receiving in service training | $\mathbf{9 8 6}$ | $\mathbf{3 , 8 0 4}$ | $\mathbf{3 , 5 2 5}$ |
| Trained Male Instructors | 597 | 2,386 | 2,173 |
| Trained Female Instructors | 389 | 1,418 | 1,352 |
| \% of Trained Instructors | $17.2 \%$ | $60.5 \%$ | $58.1 \%$ |
| \% of Trained Male Instructors | $16.3 \%$ | $59.6 \%$ | $56.9 \%$ |
| \% Trained Female Instructors | $18.8 \%$ | $62.2 \%$ | $60.1 \%$ |
| Learners: instructor Ratio | $\mathbf{2 2}$ | $\mathbf{2 4}$ | $\mathbf{2 2}$ |
| Learners: trained instructor Ratio | $\mathbf{7 7}$ | $\mathbf{2 7}$ | $\mathbf{3 8}$ |

The number of instructors increased from 5,725 in 2016 to 6,287 in 2017 and decreased to 6,072 in 2018. Most of the instructors are male for all three consecutive years. The proportion of teachers trained increased from $17.2 \%$ in 2016 to $58.1 \%$ in 2018.


Map 7.I: Learners per instructor in adult literacy
The number of learners per instructor hover around 22 learners per instructors. This is considered as good measure for this level. The trained instructor to learners improves from 77 in 2016 to 27 in 2017 and to 38 in 2018. This shows that more efforts have been made towards instructors training to improve the quality of literacy instructions.

However, the level of education of instructors still low; most of them have primary level; and only $58,1 \%$ of them have been trained. There is a need of building the capacity of adult literacy instructors.

## CONCLUSION AND RECOMMENDATIONS

The publication of Education Statistical Yearbook is one of the steps to meet data needs of the education sector. The statistics published in this document will help in planning, monitoring and evaluating the progress made within national level, and comparing it to the regional and international goals and targets. In this section, we will highlight some key points which should be taken into consideration for the improvement of education system in Rwanda, particularly the quality of education.

It is laudable that we have managed to collect data on pre-nursery level. However, the total enrolment in pre-nursery is still very low and only 25 districts have a pre-nursery school. The implementation framework on this level is not well defined due to lack of clarity on the roles of different ministries. Although the Ministry of Education collects the data for pre-nursery, this level is under the Ministry of Gender and Family Promotion. Better coordination between the ministries and clear defining of shared objectives could be helpful in tackling the issues faced by pre-nursery level.

On Nursery education, it is good that we have now been successful in collecting disaggregated data on public, government-aided and private schools. However, the Net Enrolment Rate for Nursery level is at $20.8 \%$ in 2018 , which indicates that access continues to be an issue. There is a need of clear definition of Nursery school's status most of them are in the same premises with primary or secondary public/ government aided school; but government provide only the room and do not pay teacher salaries, this causes fluctuation across years for the classification of a such school. The number of pupils per classroom in nursery schools is still high(4I/Classroom).

On primary education, the Net Enrolment Rate (98.3\%) is consistent with previous years. However, Gross Enrolment Rate is still very high at I37.5\%. To achieve the universal target of 100\% GER, more strategies and plans should be elaborated to ensure the smooth transition of students to secondary level (so that over-aged children do not remain in primary).

Moreover, a recommendation that applies for both Nursery and primary levels is that parents should be sensitized to send their children on time to the Nursery level. This would enable children to be school-ready to join the primary level at the appropriate age. The Ministry should have adequate measures to increase classrooms to facilitate the management of students and increase the quality education.

On secondary education, the low Net Enrolment Rate of 29.8.1\% is a cause for concern. Dropout and repetition rates continue to be high for this level- at $5.8 \%$ and $5.0 \%$ respectively. In this regard, the Ministry of Education had commissioned a study on the same. It is important to implement
the recommendations of the study in the coming years to address the issues of dropout and repetition simultaneously.
Specifically, in the primary and secondary schools, the ministry should notify the high repetition rate and dropout rates either via school feeding program, involving parents in education of the children. The ministry also should increase books since the rate between pupils and books is higher.

In TVET sector, it is significant that we have been able to capture data on National Employment Program for the second time. However, the decrease in the number of trainees in TVET from 2017 to 2018, by $10 \%$ in one year is worrying. To address this, there is a need to conduct a comprehensive study on the trend of falling TVET enrolment. Also, sensitization and campaigns on the importance of technical and vocational education as job providing sector- among students, parents and communities- can be an effective way to change attitudes towards TVET sector. The government is recommended to explore possible financing ways to improve this program to facilitate youth in self-employment-based jobs

In tertiary education, the total enrolment has decreased from 91,193 in 2016/2017 to 89,160 in 2017/2018.These reduction in enrolment is remarkable in public from 38,595 in 2016/2017 to 38,338 in 2017/20I8 and in private from 52,598 in 2016/I7 to 50,822 in 2017/I8.This reduction may be the result of the suspension of some universities, it should be strong involvement of private investors in the tertiary education sector to accommodate more students. As the ratio of students per computer in tertiary education is still high (4 student/computer), more effort should be made to increase the number of computers to facilitate students to better pursuing their programs and do the quality researches. Also, the number of students enrolled in STEM has been showing a decreasing trend. Financial incentives and scholarships can help in reversing this trend.

Although the number of learners in the adult literacy centres have increased, the literacy rate for Rwanda is still low at $71.7 \%$ (EICV5) for population aged 10 and above. It is also interesting that more women ( $59 \%$ received certificates from these centres than men ( $41 \%$ ). It should be a careful planning and strategies should be in place to ensure that young people should be ideally attending schools/ TVET centres/ tertiary institutions, and do not end up becoming literate at these adult literacy centres. In other words, these centres should strictly benefit adults who have missed out on schooling opportunities.

In general, a decrease of adult literacy centers, leaners, and instructors is observed through this statistic. The major issue is the budget allocated to the adult literacy program: the government should increase the budget allocated to the program for creation of more centres, their equipment in term of teaching and learning materials, training of instructors, motivation of adult instructors. Awareness campaign on the importance of literacy at grassroot level (District level)

## GLOSSARY

A qualified teacher is one who has the minimum academic qualifications necessary to teach at a specific level of education. In Nursery and primary is a teacher having A2 or above qualification, in secondary is a teacher having Al or above qualification.

A trained teacher is one who has fulfilled at least the minimum organized teacher-training requirements (pre-service or in-service) to teach at a specific level of education. In the other words is a qualified teacher with a qualification in pedagogical skills.

Class is made up of students who follow a common course of study. A class is the pedagogical structure in which each student is registered. In primary school where students follow double shifting program a classroom can have 2 classes: one class in the morning and one class in the afternoon

Classroom: Room or place in which teaching or learning activities can take place.

Formal education and training is defined as education provided by the system of schools, colleges, universities and other formal educational institutions that normally constitutes a continuous 'ladder' of fulltime education for children and young people, generally beginning at the age of 5 to 7 and continuing to up to 20 or 25 years old.

Improved drinking water source is a water delivery point that by the nature of its design protects the water from external contamination, particularly of faecal origin.

Improved toilets include a pit latrine with slab, a ventilated improved pit latrine, a flush toilet, a pour-flush toilet or a composting toilet. Unimproved facilities include a pit
latrine without a slab, hanging toilets and bucket toilets. A school should be counted as having single-sex toilets if separate Female and Male toilets are available on the location or the educational institution is a single sex school and has toilets.

Industrial based Training: This is a training under NEP which takes place purely and entirely in the industry in support of incompany trainers. It's also another form of workplace learning.
Massive Vocation Training: This is a shortterm training under NEP which is school based and mainly focused on youth and women outside formal education system.

Non-formal education and training is defined as any organized and sustained learning activities that do not correspond exactly to the above definition of formal education. Non-formal education may therefore take place both within and outside educational institutions and cater to people of all ages.

Rapid Response Training: This is a form of training under NEP responding to the specific skills needs and labor gaps in new projects.

Recognition of Prior Learning: This process is used by regulatory bodies and training institutions under NEP to evaluate or assess and certify competencies or skills and knowledge acquire outside formal education. This is for recognizing competence against the given standards or learning outcomes.

Reconversion Program: This is a special training program under NEP provided to the university and all general education graduate trainees to undergo short term hands-on-skills for quick employment.

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## ANNEXES

Annex I: Participation rate by single age and sex in 2017 and 2018

| Age | 2017 |  |  | 20I8 |  |  |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | Male | Female | Overall | Male | Female | Overall |
| 4 years | $16.2 \%$ | $17.2 \%$ | $16.7 \%$ | I7.1\% | $17.8 \%$ | $17.4 \%$ |
| 5 years | $25.9 \%$ | $27.0 \%$ | $26.5 \%$ | $25.4 \%$ | $26.8 \%$ | $26.1 \%$ |
| 6 years | $46.8 \%$ | $47.4 \%$ | $47.1 \%$ | $52.0 \%$ | $53.1 \%$ | $52.6 \%$ |
| 7 years | $99.9 \%$ | $99.8 \%$ | $99.9 \%$ | $99.9 \%$ | $99.9 \%$ | $99.9 \%$ |
| 8 years | $98.3 \%$ | $99.8 \%$ | $99.1 \%$ | $99.2 \%$ | $98.8 \%$ | $99.0 \%$ |
| 9 years | $98.6 \%$ | $97.0 \%$ | $97.8 \%$ | $98.5 \%$ | $97.8 \%$ | $98.1 \%$ |
| 10 years | $98.0 \%$ | $97.8 \%$ | $97.9 \%$ | $98.5 \%$ | $97.4 \%$ | $97.9 \%$ |
| 11 years | $98.2 \%$ | $98.5 \%$ | $98.3 \%$ | $99.0 \%$ | $99.7 \%$ | $99.4 \%$ |
| 12 years | $99.1 \%$ | $99.8 \%$ | $99.4 \%$ | $96.9 \%$ | $97.5 \%$ | $97.2 \%$ |
| 13 years | $61.7 \%$ | $59.8 \%$ | $60.7 \%$ | $98.0 \%$ | $99.2 \%$ | $98.6 \%$ |
| 14 years | $64.5 \%$ | $69.7 \%$ | $67.1 \%$ | $82.7 \%$ | $86.2 \%$ | $84.4 \%$ |
| 15 years | $71.9 \%$ | $79.3 \%$ | $75.6 \%$ | $74.7 \%$ | $75.8 \%$ | $75.2 \%$ |
| 16 years | $84.4 \%$ | $82.4 \%$ | $83.4 \%$ | $64.2 \%$ | $66.5 \%$ | $65.3 \%$ |
| 17 years | $82.8 \%$ | $86.6 \%$ | $84.7 \%$ | $55.4 \%$ | $56.2 \%$ | $55.8 \%$ |
| 18 years | $62.4 \%$ | $63.1 \%$ | $62.8 \%$ | $46.6 \%$ | $48.1 \%$ | $47.4 \%$ |
| 19 years | $22.9 \%$ | $16.9 \%$ | $19.8 \%$ | $I 2.9 \%$ | $10.8 \%$ | $11.8 \%$ |
| 20 years | $17.0 \%$ | $15.4 \%$ | $16.2 \%$ | $9.9 \%$ | $9.2 \%$ | $9.5 \%$ |
| 21 years | $19.2 \%$ | $16.8 \%$ | $18.0 \%$ | $10.9 \%$ | $9.3 \%$ | $10.1 \%$ |
| 22 years | $17.3 \%$ | $14.3 \%$ | $15.8 \%$ | $10.9 \%$ | $8.5 \%$ | $9.7 \%$ |
| 23 years | $13.4 \%$ | $12.1 \%$ | $12.7 \%$ | $9.2 \%$ | $6.6 \%$ | $7.9 \%$ |
| 24 years | $16.2 \%$ | $18.2 \%$ | $17.3 \%$ | $8.9 \%$ | $6.7 \%$ | $7.8 \%$ |

Annex 2: Pre-Nursery centres by district in 2017 and 2018

| District/Year | 2017 | 2018 |
| :---: | :---: | :---: |
| Gisagara | 5 | 8 |
| Huye | 4 | 5 |
| Kamonyi | - | 5 |
| Muhanga | - | 1 |
| Nyamagabe | - | 2 |
| Nyanza | - | 3 |
| Nyaruguru | - | - |
| Ruhango | 2 | 5 |
| South | 11 | 29 |
| Karongi | - | 4 |
| Ngororero | - | 2 |
| Nyabihu | - | 1 |
| Nyamasheke | 2 | 2 |
| Rubavu | 5 | 1 |
| Rusizi | - | 1 |
| Rutsiro | - | - |
| West | 7 | 11 |
| Bugesera | 2 | 0 |
| Gatsibo | 24 | 12 |
| Kayonza | 7 | 7 |
| Kirehe | - | 2 |
| Ngoma | - | - |
| Nyagatare | 18 | 3 |
| Rwamagana | 2 | 14 |
| East | 53 | 38 |
| Burera | - | 0 |
| Gakenke | 2 | 2 |
| Gicumbi | 2 | 3 |
| Musanze | - | - |
| Rulindo | - | 1 |
| North | 4 | 6 |
| Gasabo | 8 | 7 |
| Kicukiro | 3 | 3 |
| Nyarugenge | 4 | 2 |
| Kigali city | 15 | 12 |
| Rwanda | 90 | 96 |

Annex 3: Pre-Nursery Children by district in 2017 and 2018

| District | 2017 |  |  | 2018 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | Total | Male | Female | Total |
| Gisagara | 194 | 220 | 414 | 367 | 363 | 730 |
| Huye | 61 | 62 | 123 | 313 | 280 | 593 |
| Kamonyi | - | - | - | 110 | 115 | 225 |
| Muhanga | - | - | - | 5 | 5 | 10 |
| Nyamagabe | - | - | - | 100 | 108 | 208 |
| Nyanza | - | - | - | 82 | 93 | 175 |
| Nyaruguru | - | - | - | - | - |  |
| Ruhango | 78 | 68 | 146 | 97 | 108 | 205 |
| South | 333 | 350 | 683 | 1074 | 1072 | 2146 |
| Karongi | - | - | - | 43 | 44 | 87 |
| Ngororero | - | - | - | 94 | 111 | 205 |
| Nyabihu | - | - | - | 85 | 65 | 150 |
| Nyamasheke | 190 | 212 | 402 | 85 | 84 | 169 |
| Rubavu | 84 | 91 | 175 | 59 | 91 | 150 |
| Rusizi | - | - | - | 2 | 1 | 3 |
| Rutsiro | - | - | - | - | - |  |
| West | 274 | 303 | 577 | 368 | 396 | 764 |
| Bugesera | 46 | 34 | 80 |  |  | 0 |
| Gatsibo | 360 | 462 | 822 | 338 | 330 | 668 |
| Kayonza | 360 | 381 | 741 | 366 | 316 | 682 |
| Kirehe | - | - | - | 53 | 60 | 113 |
| Ngoma | - | - | - | - | - |  |
| Nyagatare | 183 | 220 | 403 | 21 | 16 | 37 |
| Rwamagana | 171 | 160 | 331 | 308 | 386 | 694 |
| East | 1,120 | 1,257 | 2,377 | 1086 | 1108 | 2194 |
| Burera | - | - | - |  |  | 0 |
| Gakenke | 70 | 68 | 138 | 52 | 74 | 126 |
| Gicumbi | 158 | 162 | 320 | 222 | 226 | 448 |
| Musanze | - | - | - | - | - | - |
| Rulindo | - | - | - | 109 | 95 | 204 |
| North | 228 | 230 | 458 | 383 | 395 | 778 |
| Gasabo | 236 | 264 | 500 | 72 | 100 | 172 |
| Kicukiro | 192 | 183 | 375 | 41 | 49 | 90 |
| Nyarugenge | 133 | 131 | 264 | 175 | 172 | 347 |
| Kigali city | 561 | 578 | I,139 | 288 | 321 | 609 |
| Rwanda | 2,516 | 2,718 | 5,234 | 3199 | 3292 | 6491 |

Annex 4: Pre-Nursery caregivers by district in 2017 and 2018

| District | 2017 |  |  | 2018 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | Total | Male | Female | Total |
| Gisagara | 2 | 5 | 7 | 0 | 17 | 17 |
| Huye | 3 | 6 | 9 | 1 | 9 | 10 |
| Kamonyi | - | - | - | I | 11 | 12 |
| Muhanga | - | - | - |  | 2 | 2 |
| Nyamagabe | - | - | - | 2 | 6 | 8 |
| Nyanza | - | - | - | 2 | 11 | 13 |
| Nyaruguru | - | - | - | - | - | - |
| Ruhango | 3 | 5 | 8 | 3 | 9 | 12 |
| South | 8 | 16 | 24 | 9 | 65 | 74 |
| Karongi | - | - | - | 1 | 8 | 9 |
| Ngororero | - | - | - | 2 | 5 | 7 |
| Nyabihu | - | - | - | 0 | 3 | 3 |
| Nyamasheke | 8 | 10 | 18 | 7 | 9 | 16 |
| Rubavu | 2 | 11 | 13 | 1 | 2 | 3 |
| Rusizi | - | - | - | 0 | I | I |
| Rutsiro | - | - | - | - | - | - |
| West | 10 | 21 | 31 | 11 | 28 | 39 |
| Bugesera | - | 7 | 7 |  |  |  |
| Gatsibo | 7 | 34 | 41 | 3 | 18 | 21 |
| Kayonza | 8 | 8 | 16 | 13 | 14 | 27 |
| Kirehe | - | - | - | 0 | 5 | 5 |
| Ngoma | - | - | - | - | - | - |
| Nyagatare | 7 | 15 | 22 | 0 | 3 | 3 |
| Rwamagana | - | 12 | 12 | 5 | 27 | 32 |
| East | 22 | 76 | 98 | 21 | 67 | 88 |
| Burera | - | - | - |  |  | 0 |
| Gakenke | I | 10 | 11 | 1 | 5 | 6 |
| Gicumbi | 4 | 8 | 12 | 2 | 11 | 13 |
| Musanze | - | - | - | - | - | - |
| Rulindo | - | - | - |  | 3 | 3 |
| North | 5 | 18 | 23 | 3 | 19 | 22 |
| Gasabo | 3 | 23 | 26 | 0 | 20 | 20 |
| Kicukiro | 8 | 10 | 18 | 0 | 8 | 8 |
| Nyarugenge | 6 | 17 | 23 | 3 | 8 | 11 |
| Kigali city | 17 | 50 | 67 | 3 | 36 | 39 |
| Rwanda | 62 | 181 | 243 | 47 | 215 | 262 |

Annex 5: Nursery schools by district from 2016 to 2018

| District/Province | 2016 | 2017 | 2018 |
| :---: | :---: | :---: | :---: |
| Gisagara | 32 | 41 | 45 |
| Huye | 101 | 92 | 83 |
| Kamonyi | 75 | 118 | 127 |
| Muhanga | 114 | 139 | 146 |
| Nyamagabe | 78 | 87 | 78 |
| Nyanza | 85 | 86 | 88 |
| Nyaruguru | 46 | 58 | 71 |
| Ruhango | 74 | 76 | 69 |
| South | 605 | 697 | 707 |
| Karongi | 87 | 119 | 122 |
| Ngororero | 89 | 106 | 107 |
| Nyabihu | 68 | 82 | 82 |
| Nyamasheke | 121 | 143 | 142 |
| Rubavu | 108 | 140 | 147 |
| Rusizi | 112 | 121 | 147 |
| Rutsiro | 95 | 184 | 146 |
| West | 680 | 895 | 893 |
| Bugesera | 76 | 75 | 80 |
| Gatsibo | 123 | 125 | 140 |
| Kayonza | 50 | 78 | 65 |
| Kirehe | 57 | 59 | 60 |
| Ngoma | 82 | 75 | 73 |
| Nyagatare | 144 | 141 | 123 |
| Rwamagana | 102 | 138 | 120 |
| East | 634 | 691 | 661 |
| Burera | 103 | 111 | 132 |
| Gakenke | 137 | 136 | 128 |
| Gicumbi | 154 | 146 | 153 |
| Musanze | 122 | 142 | 150 |
| Rulindo | 90 | 97 | 95 |
| North | 606 | 632 | 658 |
| Gasabo | 100 | 113 | 126 |
| Kicukiro | 92 | 94 | 97 |
| Nyarugenge | 40 | 64 | 68 |
| Kigali city | 232 | 271 | 291 |
| Rwanda | 2,757 | 3,186 | 3,210 |

Annex 6: Nursery Classrooms by district from 2016 to 2018

| District/Province | 2016 | 2017 | 2018 |
| :---: | :---: | :---: | :---: |
| Gisagara | 42 | 56 | 65 |
| Huye | 179 | 171 | 165 |
| Kamonyi | 127 | 217 | 234 |
| Muhanga | 189 | 240 | 244 |
| Nyamagabe | 129 | 130 | 118 |
| Nyanza | 124 | 124 | 136 |
| Nyaruguru | 57 | 72 | 93 |
| Ruhango | 106 | 110 | 106 |
| South | 953 | I,120 | 1,161 |
| Karongi | 114 | 151 | 180 |
| Ngororero | 99 | 127 | 139 |
| Nyabihu | 82 | 100 | 111 |
| Nyamasheke | 127 | 153 | 169 |
| Rubavu | 187 | 235 | 273 |
| Rusizi | 164 | 175 | 203 |
| Rutsiro | 94 | 158 | 128 |
| West | 867 | 1,099 | 1,203 |
| Bugesera | 163 | 171 | 202 |
| Gatsibo | 170 | 171 | 195 |
| Kayonza | 79 | 117 | 89 |
| Kirehe | 84 | 92 | 97 |
| Ngoma | 114 | 115 | 100 |
| Nyagatare | 312 | 290 | 288 |
| Rwamagana | 177 | 212 | 214 |
| East | 1,099 | 1,168 | 1,185 |
| Burera | 122 | 128 | 157 |
| Gakenke | 173 | 186 | 184 |
| Gicumbi | 198 | 202 | 220 |
| Musanze | 208 | 244 | 273 |
| Rulindo | 133 | 156 | 161 |
| North | 834 | 916 | 995 |
| Gasabo | 225 | 389 | 434 |
| Kicukiro | 293 | 309 | 327 |
| Nyarugenge | 141 | 206 | 204 |
| Kigali city | 659 | 904 | 965 |
| Rwanda | 4,412 | 5,207 | 5,509 |

Annex 7: Nursery pupils by district in 2017 and 2018.

| District/Province | 2017 |  |  | 2018 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | Total | Male | Female | Total |
| Gisagara | 1,588 | 1,770 | 3,358 | I,831 | 1,924 | 3,755 |
| Huye | 3,561 | 3,772 | 7,333 | 3,508 | 3,728 | 7,236 |
| Kamonyi | 4,750 | 4,737 | 9,487 | 4,673 | 4,827 | 9,500 |
| Muhanga | 4,862 | 4,776 | 9,638 | 5,047 | 4,908 | 9,955 |
| Nyamagabe | 3,272 | 3,335 | 6,607 | 2,942 | 3,086 | 6,028 |
| Nyanza | 3,550 | 3,619 | 7,169 | 4,105 | 4,128 | 8,233 |
| Nyaruguru | 1,867 | 2,135 | 4,002 | 2,921 | 3,419 | 6,340 |
| Ruhango | 2,422 | 2,554 | 4,976 | 2,256 | 2,219 | 4,475 |
| South | 25,872 | 26,698 | 52,570 | 27,283 | 28,239 | 55,522 |
| Karongi | 3,752 | 3,809 | 7,561 | 3,572 | 3,569 | 7,141 |
| Ngororero | 3,670 | 4,006 | 7,676 | 4,348 | 4,486 | 8,834 |
| Nyabihu | 2,170 | 2,357 | 4,527 | 2,469 | 2,600 | 5,069 |
| Nyamasheke | 4,567 | 4,683 | 9,250 | 3,844 | 4,050 | 7,894 |
| Rubavu | 4,275 | 4,403 | 8,678 | 4,244 | 4,418 | 8,662 |
| Rusizi | 4,466 | 4,503 | 8,969 | 4,547 | 4,527 | 9,074 |
| Rutsiro | 4,346 | 4,791 | 9,137 | 3,505 | 3,679 | 7,184 |
| West | 27,246 | 28,552 | 55,798 | 26,529 | 27,329 | 53,858 |
| Bugesera | 2,84I | 2,873 | 5,714 | 3,332 | 3,261 | 6,593 |
| Gatsibo | 3,542 | 3,875 | 7,417 | 4,210 | 4,660 | 8,870 |
| Kayonza | 2,156 | 2,229 | 4,385 | 2,039 | 2,043 | 4,082 |
| Kirehe | 2,222 | 2,408 | 4,630 | 2,114 | 2,298 | 4,412 |
| Ngoma | 2,912 | 2,935 | 5,847 | 3,427 | 3,285 | 6,712 |
| Nyagatare | 4,656 | 4,639 | 9,295 | 4,288 | 4,472 | 8,760 |
| Rwamagana | 3,770 | 4,027 | 7,797 | 3,637 | 3,766 | 7,403 |
| East | 22,099 | 22,986 | 45,085 | 23,047 | 23,785 | 46,832 |
| Burera | 3,551 | 4,046 | 7,597 | 3,417 | 3,773 | 7,190 |
| Gakenke | 4,325 | 4,254 | 8,579 | 4,426 | 4,341 | 8,767 |
| Gicumbi | 4,189 | 4,283 | 8,472 | 4,249 | 4,414 | 8,663 |
| Musanze | 4,230 | 4,403 | 8,633 | 4,757 | 4,709 | 9,466 |
| Rulindo | 3,691 | 3,799 | 7,490 | 4,115 | 4,048 | 8,163 |
| North | 19,986 | 20,785 | 40,771 | 20,964 | 21,285 | 42,249 |
| Gasabo | 5,954 | 5,896 | 11,850 | 6,449 | 6,534 | 12,983 |
| Kicukiro | 4,401 | 4,140 | 8,54I | 4,746 | 4,606 | 9,352 |
| Nyarugenge | 2,904 | 2,916 | 5,820 | 3,026 | 2,884 | 5,910 |
| Kigali city | 13,259 | 12,952 | 26,2 I I | 14,22 I | 14,024 | 28,245 |
| Rwanda | 108,462 | I I I,973 | 220,435 | I 1 2,044 | 1 14,662 | 226,706 |

Annex 8: Nursery staff by district in 2017 and 2018

| District/Province | 2017 |  |  | 2018 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | Total | Male | Female | Total |
| Gisagara | 19 | 54 | 73 | 18 | 56 | 74 |
| Huye | 16 | 185 | 201 | 13 | 170 | 183 |
| Kamonyi | 23 | 240 | 263 | 24 | 238 | 262 |
| Muhanga | 33 | 245 | 278 | 32 | 260 | 292 |
| Nyamagabe | 40 | 144 | 184 | 36 | 139 | 175 |
| Nyanza | 18 | 138 | 156 | 19 | 146 | 165 |
| Nyaruguru | 12 | 62 | 74 | 19 | 97 | 116 |
| Ruhango | 26 | 127 | 153 | 20 | 126 | 146 |
| South | 187 | 1,195 | 1,382 | 181 | 1,232 | 1,413 |
| Karongi | 35 | 177 | 212 | 39 | 195 | 234 |
| Ngororero | 25 | 121 | 146 | 30 | 152 | 182 |
| Nyabihu | 30 | 70 | 100 | 29 | 87 | 116 |
| Nyamasheke | 32 | 175 | 207 | 29 | 170 | 199 |
| Rubavu | 98 | 228 | 326 | 109 | 247 | 356 |
| Rusizi | 79 | 145 | 224 | 80 | 184 | 264 |
| Rutsiro | 42 | 161 | 203 | 51 | 123 | 174 |
| West | 341 | 1,077 | 1,418 | 367 | 1,158 | 1,525 |
| Bugesera | 64 | 152 | 216 | 54 | 173 | 227 |
| Gatsibo | 56 | 142 | 198 | 63 | 175 | 238 |
| Kayonza | 26 | 96 | 122 | 57 | 111 | 168 |
| Kirehe | 24 | 81 | 105 | 24 | 87 | 111 |
| Ngoma | 35 | 104 | 139 | 31 | 97 | 128 |
| Nyagatare | 107 | 239 | 346 | 107 | 233 | 340 |
| Rwamagana | 60 | 210 | 270 | 67 | 212 | 279 |
| East | 372 | 1,024 | 1,396 | 403 | 1,088 | 1,491 |
| Burera | 75 | 169 | 244 | 75 | 167 | 242 |
| Gakenke | 41 | 159 | 200 | 48 | 150 | 198 |
| Gicumbi | 47 | 190 | 237 | 59 | 208 | 267 |
| Musanze | 76 | 255 | 331 | 61 | 259 | 320 |
| Rulindo | 21 | 154 | 175 | 20 | 156 | 176 |
| North | 260 | 927 | 1,187 | 263 | 940 | 1,203 |
| Gasabo | 97 | 571 | 668 | 119 | 606 | 725 |
| Kicukiro | 61 | 395 | 456 | 57 | 447 | 504 |
| Nyarugenge | 49 | 256 | 305 | 67 | 250 | 317 |
| Kigali city | 207 | 1,222 | 1,429 | 243 | 1,303 | 1,546 |
| Rwanda | 1,367 | 5,445 | 6,812 | 1,457 | 5,72I | 7,178 |

Annex 9: Primary schools by District from 2016 to 2018

| District/Province | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: |
| Gisagara | 61 | 64 | 64 |
| Huye | 99 | 98 | 99 |
| Kamonyi | 93 | 94 | 99 |
| Muhanga | 117 | 120 | 122 |
| Nyamagabe | 106 | 108 | 108 |
| Nyanza | 82 | 84 | 84 |
| Nyaruguru | 90 | 90 | 90 |
| Ruhango | 75 | 78 | 79 |
| South | $\mathbf{7 2 3}$ | $\mathbf{7 3 6}$ | $\mathbf{7 4 5}$ |
| Karongi | 128 | 125 | 128 |
| Ngororero | 99 | 99 | 101 |
| Nyabihu | 90 | 92 | 92 |
| Nyamasheke | 139 | 139 | 139 |
| Rubavu | 86 | 87 | 88 |
| Rusizi | 119 | 119 | 121 |
| Rutsiro | 93 | 92 | 92 |
| West | 754 | 753 | $\mathbf{7 6 1}$ |
| Bugesera | 94 | 99 | 102 |
| Gatsibo | 95 | 91 | 104 |
| Kayonza | 96 | 90 | 89 |
| Kirehe | 63 | 64 | 65 |
| Ngoma | 76 | 77 | 76 |
| Nyagatare | 149 | 158 | 154 |
| Rwamagana | 73 | 77 | 74 |
| East | $\mathbf{6 4 6}$ | $\mathbf{6 5 6}$ | $\mathbf{6 6 4}$ |
| Burera | 91 | 91 | 93 |
| Gakenke | 118 | 118 | 118 |
| Gicumbi | 104 | 104 | 104 |
| Musanze | 95 | 96 | 95 |
| Rulindo | 84 | 88 | 90 |
| North | 492 | 497 | $\mathbf{5 0 0}$ |
| Gasabo | 110 | 110 | 114 |
| Kicukiro | 75 | 81 | 82 |
| Nyarugenge | 42 | 44 | 43 |
| Kigali city | $\mathbf{2 2 7}$ | $\mathbf{2 3 5}$ | $\mathbf{2 3 9}$ |
| Rwanda | $\mathbf{2 , 8 7 7}$ | $\mathbf{2 , 9 0 9}$ |  |
|  |  |  |  |

Annex 10: Primary classrooms by District from 2016 to 2018

| District/Province | 2016 | 2017 | 2018 |
| :---: | :---: | :---: | :---: |
| Gisagara | 854 | 918 | 943 |
| Huye | 947 | 951 | 966 |
| Kamonyi | 991 | 1,011 | 1059 |
| Muhanga | 975 | I,007 | 1037 |
| Nyamagabe | 1,133 | 1,176 | 1183 |
| Nyanza | 889 | 894 | 905 |
| Nyaruguru | 923 | 928 | 929 |
| Ruhango | 950 | 985 | 991 |
| South | 7,662 | 7,870 | 8,013 |
| Karongi | 1,133 | 1,112 | 1144 |
| Ngororero | 1,064 | 1,060 | 1067 |
| Nyabihu | 927 | 929 | 941 |
| Nyamasheke | 1,238 | 1,239 | 1258 |
| Rubavu | 1021 | 1,043 | 1067 |
| Rusizi | 1,188 | 1,22I | 1227 |
| Rutsiro | 1,016 | 1,018 | 1031 |
| West | 7,587 | 7,622 | 7,735 |
| Bugesera | 1103 | 1,143 | 1197 |
| Gatsibo | 1,293 | 1,320 | 1364 |
| Kayonza | 1125 | 1,061 | 1053 |
| Kirehe | 1018 | 1,047 | 1065 |
| Ngoma | 914 | 933 | 964 |
| Nyagatare | 1,578 | 1,615 | 1596 |
| Rwamagana | 914 | 947 | 995 |
| East | 7,945 | 8,066 | 8,234 |
| Burera | I,123 | 1,113 | 1162 |
| Gakenke | 1027 | 1,053 | 1061 |
| Gicumbi | 1,198 | 1,200 | 1195 |
| Musanze | I,187 | 1,209 | 1238 |
| Rulindo | 846 | 856 | 890 |
| North | 5,381 | 5,431 | 5,546 |
| Gasabo | 1,343 | 1,339 | 1410 |
| Kicukiro | 796 | 855 | 867 |
| Nyarugenge | 723 | 744 | 743 |
| Kigali city | 2,862 | 2,938 | 3,020 |
| Rwanda | 31,437 | 31,927 | 32,548 |

Annex II: Primary pupils' enrolment by District in 2017 and 2018

| District/Province | 2017 |  |  | 2018 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | Total | Male | Female | Total |
| Gisagara | 41745 | 41892 | 83,637 | 40,879 | 40,852 | 81,731 |
| Huye | 34,328 | 33,578 | 67,906 | 33,684 | 32,906 | 66,590 |
| Kamonyi | 42,115 | 41,072 | 83,187 | 41,536 | 40,184 | 81,720 |
| Muhanga | 35,702 | 35,059 | 70,761 | 34,740 | 33,595 | 68,335 |
| Nyamagabe | 43,776 | 43,763 | 87,539 | 42,539 | 42,610 | 85,149 |
| Nyanza | 39,677 | 38,000 | 77,677 | 39,033 | 36,869 | 75,902 |
| Nyaruguru | 36,788 | 36,440 | 73,228 | 36,311 | 35,538 | 71,849 |
| Ruhango | 39,460 | 38,295 | 77,755 | 39,205 | 37,645 | 76,850 |
| South | 313,591 | 308,099 | 621,690 | 307,927 | 300,199 | 608,126 |
| Karongi | 44,514 | 42,680 | 87,194 | 43,229 | 41,389 | 84,618 |
| Ngororero | 43,218 | 43,807 | 87,025 | 40,809 | 41,34I | 82,150 |
| Nyabihu | 36,189 | 37,229 | 73,418 | 35,74I | 36,175 | 71,916 |
| Nyamasheke | 48,474 | 47,042 | 95,516 | 47,683 | 46,620 | 94,303 |
| Rubavu | 48,976 | 49,283 | 98,259 | 48,349 | 47,871 | 96,220 |
| Rusizi | 48,547 | 46,887 | 95,434 | 48,094 | 46,669 | 94,763 |
| Rutsiro | 42,588 | 42,927 | 85,515 | 41,308 | 41,429 | 82,737 |
| West | 312,506 | 309,855 | 622,361 | 305,213 | 301,494 | 606,707 |
| Bugesera | 46,005 | 46,143 | 92,148 | 47,749 | 47,726 | 95,475 |
| Gatsibo | 57,538 | 58,361 | 115,899 | 56,965 | 57,807 | 114,772 |
| Kayonza | 44,733 | 44,323 | 89,056 | 44,661 | 43,937 | 88,598 |
| Kirehe | 50,992 | 51,011 | 102,003 | 51,847 | 51,100 | 102,947 |
| Ngoma | 43,573 | 42,433 | 86,006 | 43,019 | 41,057 | 84,076 |
| Nyagatare | 57,719 | 58,784 | 116,503 | 57,256 | 58,229 | 115,485 |
| Rwamagana | 38,559 | 38,781 | 77,340 | 41,227 | 40,808 | 82,035 |
| East | 339,119 | 339,836 | 678,955 | 342,724 | 340,664 | 683,388 |
| Burera | 42,758 | 45,209 | 87,967 | 42,061 | 43,517 | 85,578 |
| Gakenke | 37,929 | 37,665 | 75,594 | 36,928 | 36,259 | 73,187 |
| Gicumbi | 47,44I | 48,167 | 95,608 | 45,666 | 45,900 | 91,566 |
| Musanze | 44,754 | 45,178 | 89,932 | 43,679 | 43,777 | 87,456 |
| Rulindo | 32,62I | 33,002 | 65,623 | 32,052 | 31,965 | 64,017 |
| North | 205,503 | 209,22I | 414,724 | 200,386 | 201,418 | 401,804 |
| Gasabo | 48,584 | 48,110 | 96,694 | 50,763 | 49,548 | 100,311 |
| Kicukiro | 26,268 | 25,685 | 51,953 | 26,066 | 25,369 | 51,435 |
| Nyarugenge | 27,271 | 26,726 | 53,997 | 26,265 | 25,669 | 51,934 |
| Kigali city | 102,123 | 100,521 | 202,644 | 103,094 | 100,586 | 203,680 |
| Rwanda | 1,272,842 | 1,267,532 | 2,540,374 | 1,259,344 | 1,244,36 I | 2,503,705 |

Annex 12: Primary Staff by District in 2017 and 2018

| District/Province | 2017 |  |  | 2018 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | Total | Male | Female | Total |
| Gisagara | 488 | 738 | 1226 | 504 | 766 | 1,270 |
| Huye | 430 | 767 | 1197 | 439 | 771 | 1,210 |
| Kamonyi | 411 | 943 | 1354 | 428 | 967 | 1,395 |
| Muhanga | 450 | 913 | 1363 | 460 | 936 | 1,396 |
| Nyamagabe | 649 | 896 | 1545 | 639 | 924 | 1,563 |
| Nyanza | 526 | 754 | 1280 | 530 | 776 | 1,306 |
| Nyaruguru | 569 | 740 | 1309 | 569 | 758 | 1,327 |
| Ruhango | 431 | 839 | 1270 | 447 | 830 | 1,277 |
| South | 3,954 | 6,590 | 10,544 | 4,016 | 6,728 | 10,744 |
| Karongi | 670 | 872 | 1542 | 668 | 900 | 1,568 |
| Ngororero | 702 | 734 | 1436 | 708 | 737 | 1,445 |
| Nyabihu | 761 | 609 | 1370 | 756 | 612 | 1,368 |
| Nyamasheke | 671 | 993 | 1664 | 653 | 1,015 | 1,668 |
| Rubavu | 816 | 663 | 1479 | 839 | 666 | 1,505 |
| Rusizi | 694 | 966 | 1660 | 693 | 975 | 1,668 |
| Rutsiro | 707 | 669 | 1376 | 719 | 682 | 1,401 |
| West | 5,021 | 5,506 | 10,527 | 5,036 | 5,587 | 10,623 |
| Bugesera | 765 | 758 | 1523 | 803 | 822 | 1,625 |
| Gatsibo | 943 | 886 | 1829 | 981 | 934 | 1,915 |
| Kayonza | 738 | 725 | 1463 | 724 | 725 | 1,449 |
| Kirehe | 874 | 656 | 1530 | 851 | 664 | 1,515 |
| Ngoma | 574 | 692 | 1266 | 576 | 695 | 1,271 |
| Nyagatare | 1399 | 855 | 2254 | 1,323 | 872 | 2,195 |
| Rwamagana | 571 | 710 | 1281 | 582 | 740 | 1,322 |
| East | 5,864 | 5,282 | 11,146 | 5,840 | 5,452 | 11,292 |
| Burera | 839 | 675 | 1514 | 850 | 689 | 1,539 |
| Gakenke | 667 | 759 | 1426 | 680 | 764 | 1,444 |
| Gicumbi | 801 | 728 | 1529 | 789 | 744 | 1,533 |
| Musanze | 830 | 869 | 1699 | 834 | 863 | 1,697 |
| Rulindo | 497 | 652 | 1149 | 517 | 665 | 1,182 |
| North | 3,634 | 3,683 | 7,317 | 3,670 | 3,725 | 7,395 |
| Gasabo | 933 | 1126 | 2059 | 997 | 1,166 | 2,163 |
| Kicukiro | 574 | 689 | 1263 | 582 | 695 | 1,277 |
| Nyarugenge | 394 | 656 | 1050 | 398 | 652 | 1,050 |
| Kigali City | 1,901 | 2,471 | 4,372 | 1,977 | 2,513 | 4,490 |
| Rwanda | 20,374 | 23,532 | 43,906 | 20,539 | 24,005 | 44,544 |

Annex 13: Secondary schools by District from 2016 to 2018

| District/Province | 2016 | 2017 | 2018 |
| :---: | :---: | :---: | :---: |
| Gisagara | 39 | 39 | 43 |
| Huye | 51 | 50 | 56 |
| Kamonyi | 55 | 56 | 59 |
| Muhanga | 61 | 60 | 68 |
| Nyamagabe | 51 | 53 | 58 |
| Nyanza | 48 | 48 | 59 |
| Nyaruguru | 46 | 46 | 50 |
| Ruhango | 54 | 52 | 59 |
| South | 405 | 404 | 452 |
| Karongi | 60 | 59 | 64 |
| Ngororero | 49 | 49 | 53 |
| Nyabihu | 45 | 44 | 44 |
| Nyamasheke | 58 | 57 | 64 |
| Rubavu | 54 | 54 | 64 |
| Rusizi | 62 | 62 | 69 |
| Rutsiro | 48 | 48 | 53 |
| West | 376 | 373 | 411 |
| Bugesera | 43 | 43 | 50 |
| Gatsibo | 55 | 59 | 66 |
| Kayonza | 46 | 47 | 52 |
| Kirehe | 52 | 51 | 54 |
| Ngoma | 55 | 55 | 60 |
| Nyagatare | 54 | 53 | 58 |
| Rwamagana | 55 | 56 | 65 |
| East | 360 | 364 | 405 |
| Burera | 44 | 44 | 45 |
| Gakenke | 57 | 56 | 59 |
| Gicumbi | 77 | 76 | 83 |
| Musanze | 54 | 54 | 57 |
| Rulindo | 67 | 66 | 73 |
| North | 299 | 296 | 317 |
| Gasabo | 60 | 54 | 63 |
| Kicukiro | 41 | 42 | 45 |
| Nyarugenge | 34 | 34 | 35 |
| Kigali city | 135 | 130 | 143 |
| Rwanda | 1,575 | 1,567 | 1,728 |

Annex 14: Secondary classrooms by District from 2016 to 2018

| District/Province | 2016 | 2017 | 2018 |
| :---: | :---: | :---: | :---: |
| Gisagara | 456 | 454 | 492 |
| Huye | 572 | 575 | 621 |
| Kamonyi | 542 | 571 | 585 |
| Muhanga | 685 | 698 | 754 |
| Nyamagabe | 601 | 617 | 653 |
| Nyanza | 513 | 518 | 600 |
| Nyaruguru | 458 | 469 | 485 |
| Ruhango | 623 | 594 | 623 |
| South | 4,450 | 4,496 | 4,813 |
| Karongi | 573 | 598 | 603 |
| Ngororero | 458 | 462 | 488 |
| Nyabihu | 519 | 505 | 503 |
| Nyamasheke | 633 | 634 | 675 |
| Rubavu | 625 | 628 | 653 |
| Rusizi | 635 | 646 | 707 |
| Rutsiro | 465 | 482 | 517 |
| West | 3,908 | 3,955 | 4,146 |
| Bugesera | 523 | 538 | 579 |
| Gatsibo | 668 | 685 | 728 |
| Kayonza | 520 | 540 | 574 |
| Kirehe | 456 | 460 | 535 |
| Ngoma | 523 | 531 | 556 |
| Nyagatare | 588 | 633 | 643 |
| Rwamagana | 517 | 543 | 591 |
| East | 3,795 | 3,930 | 4,206 |
| Burera | 517 | 548 | 547 |
| Gakenke | 580 | 576 | 592 |
| Gicumbi | 736 | 74I | 774 |
| Musanze | 608 | 622 | 676 |
| Rulindo | 582 | 578 | 605 |
| North | 3,023 | 3,065 | 3,194 |
| Gasabo | 631 | 630 | 633 |
| Kicukiro | 570 | 580 | 532 |
| Nyarugenge | 420 | 425 | 448 |
| Kigali city | 1,621 | 1,635 | 1,613 |
| Rwanda | 16,797 | 17,081 | 17,972 |

Annex 15: Secondary students' enrolment by District in 2017 and 2018

| District/Province | 2017 |  |  | 2018 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | Total | Male | Female | Total |
| Gisagara | 6956 | 8002 | 14,958 | 7,861 | 9,285 | 17,146 |
| Huye | 7,994 | 9,649 | 17,643 | 9,348 | 10,676 | 20,024 |
| Kamonyi | 9,050 | 1 1,434 | 20,484 | 10,054 | 13,046 | 23,100 |
| Muhanga | 11,493 | 12,735 | 24,228 | 13,073 | 14,426 | 27,499 |
| Nyamagabe | 9,097 | 10,960 | 20,057 | 10,342 | 12,022 | 22,364 |
| Nyanza | 9,958 | 9,877 | 19,835 | 12,06\| | 11,729 | 23,790 |
| Nyaruguru | 7,768 | 9,544 | 17,312 | 8,194 | 10,270 | 18,464 |
| Ruhango | 10,178 | 11,591 | 21,769 | 10,409 | 11,199 | 21,608 |
| South | 72,494 | 83,792 | 156,286 | 81,342 | 92,653 | 173,995 |
| Karongi | 9,997 | 12,395 | 22392 | 10,711 | 13,309 | 24,020 |
| Ngororero | 6,624 | 8,536 | 15,160 | 7,402 | 9,636 | 17,038 |
| Nyabihu | 7,506 | 9,742 | 17,248 | 8,221 | 10,468 | 18,689 |
| Nyamasheke | 10,653 | 14,348 | 25,001 | 12,173 | 16,012 | 28,185 |
| Rubavu | 11,735 | 11,308 | 23,043 | 12,694 | 12,211 | 24,905 |
| Rusizi | 11,397 | 12,794 | 24,191 | 12,766 | 13,748 | 26,514 |
| Rutsiro | 8,327 | 9,429 | 17,756 | 9,803 | 10,094 | 19,897 |
| West | 66,239 | 78,552 | 144,791 | 73,770 | 85,478 | 159,248 |
| Bugesera | 7,690 | 8,636 | 16,326 | 8,885 | 10,033 | 18,918 |
| Gatsibo | 11,476 | 12, I58 | 23,634 | 12,998 | 14,000 | 26,998 |
| Kayonza | 8,100 | 9,714 | 17,814 | 9,957 | 11,216 | 21,173 |
| Kirehe | 9,082 | 8,052 | 17,134 | 10,453 | 9,648 | 20,101 |
| Ngoma | 7,945 | 8,423 | 16,368 | 8,715 | 9,210 | 17,925 |
| Nyagatare | 11,351 | 11,758 | 23,109 | 12,369 | 12,999 | 25,368 |
| Rwamagana | 8,320 | 10,844 | 19,164 | 9,372 | 12,469 | 21,84I |
| East | 63,964 | 69,585 | 133,549 | 72,749 | 79,575 | 152,324 |
| Burera | 8,688 | 9,205 | 17,893 | 9,075 | 9,901 | 18,976 |
| Gakenke | 7,366 | 9,073 | 16,439 | 7,881 | 9,932 | 17,813 |
| Gicumbi | 10,525 | 13,884 | 24,409 | 11,319 | 15,301 | 26,620 |
| Musanze | 10,775 | 14,054 | 24,829 | 11,742 | 15,07 I | 26,813 |
| Rulindo | 8,061 | 10,383 | 18,444 | 9,742 | 11,757 | 21,499 |
| North | 45,415 | 56,599 | 102,014 | 49,759 | 61,962 | III,72 I |
| Gasabo | 9,836 | 10,555 | 20,391 | 11,514 | 11,916 | 23,430 |
| Kicukiro | 1,0798 | 9,248 | 20,046 | 10,992 | 9,759 | 20,751 |
| Nyarugenge | 7,691 | 7,733 | 15,424 | 8,24I | 8,575 | 16,816 |
| Kigali city | 28,325 | 27,536 | 55,86 I | 30,747 | 30,250 | 60,997 |
| Rwanda | 276,437 | 316,064 | 592,501 | 308,367 | 349,918 | 658,285 |

Annex 16: Secondary Staff by District in 2016 and 2018

| District/Province | 2017 |  |  | 2018 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | Total | Male | Female | Total |
| Gisagara | 531 | 230 | 761 | 562 | 259 | 821 |
| Huye | 660 | 300 | 960 | 707 | 329 | 1,036 |
| Kamonyi | 548 | 362 | 910 | 559 | 385 | 944 |
| Muhanga | 747 | 404 | 1151 | 796 | 434 | 1,230 |
| Nyamagabe | 681 | 366 | 1047 | 698 | 388 | 1,086 |
| Nyanza | 647 | 255 | 902 | 779 | 312 | 1,091 |
| Nyaruguru | 561 | 226 | 787 | 602 | 245 | 847 |
| Ruhango | 720 | 371 | 1091 | 700 | 389 | 1,089 |
| South | 5,095 | 2,514 | 7,609 | 5,403 | 2,74I | 8,144 |
| Karongi | 720 | 316 | 1036 | 748 | 336 | 1,084 |
| Ngororero | 504 | 244 | 748 | 547 | 258 | 805 |
| Nyabihu | 675 | 219 | 894 | 672 | 226 | 898 |
| Nyamasheke | 702 | 315 | 1017 | 757 | 350 | 1,107 |
| Rubavu | 769 | 299 | 1068 | 780 | 324 | I,104 |
| Rusizi | 712 | 315 | 1027 | 771 | 333 | 1,104 |
| Rutsiro | 554 | 224 | 778 | 608 | 247 | 855 |
| West | 4,636 | 1,932 | 6,568 | 4,883 | 2,074 | 6,957 |
| Bugesera | 625 | 256 | 881 | 698 | 317 | 1,015 |
| Gatsibo | 801 | 295 | 1096 | 829 | 329 | 1,158 |
| Kayonza | 613 | 252 | 865 | 647 | 279 | 926 |
| Kirehe | 600 | 213 | 813 | 595 | 219 | 814 |
| Ngoma | 610 | 250 | 860 | 613 | 266 | 879 |
| Nyagatare | 677 | 218 | 895 | 718 | 252 | 970 |
| Rwamagana | 642 | 292 | 934 | 697 | 334 | 1,031 |
| East | 4,568 | 1,776 | 6,344 | 4,797 | 1,996 | 6,793 |
| Burera | 678 | 201 | 879 | 659 | 196 | 855 |
| Gakenke | 713 | 312 | 1025 | 726 | 324 | 1,050 |
| Gicumbi | 808 | 322 | 1130 | 845 | 358 | 1,203 |
| Musanze | 694 | 344 | 1038 | 759 | 353 | 1,112 |
| Rulindo | 666 | 302 | 968 | 701 | 330 | 1,031 |
| North | 3,559 | 1,481 | 5,040 | 3,690 | 1,561 | 5,25 I |
| Gasabo | 762 | 366 | 1128 | 801 | 421 | 1,222 |
| Kicukiro | 667 | 289 | 956 | 617 | 276 | 893 |
| Nyarugenge | 442 | 302 | 744 | 445 | 335 | 780 |
| Kigali city | 1,871 | 957 | 2,828 | 1,863 | 1,032 | 2,895 |
| Rwanda | 19,729 | 8,660 | 28,389 | 20,636 | 9,404 | 30,040 |

Annex 17: TVET level I to 5 centres and classrooms by District in 2018

| District/Province | Centres | Classrooms |
| :---: | :---: | :---: |
| Gisagara | 7 | 57 |
| Huye | 11 | 88 |
| Kamonyi | 7 | 52 |
| Muhanga | 19 | 176 |
| Nyamagabe | 8 | 53 |
| Nyanza | 13 | 147 |
| Nyaruguru | 5 | 40 |
| Ruhango | 17 | 174 |
| South | 87 | 787 |
| Karongi | 13 | 88 |
| Ngororero | 9 | 76 |
| Nyabihu | 8 | 75 |
| Nyamasheke | 9 | 53 |
| Rubavu | 19 | 125 |
| Rusizi | 14 | 106 |
| Rutsiro | 6 | 48 |
| West | 78 | 571 |
| Bugesera | 9 | 80 |
| Gatsibo | 14 | 122 |
| Kayonza | 7 | 62 |
| Kirehe | 6 | 60 |
| Ngoma | 11 | 84 |
| Nyagatare | 7 | 55 |
| Rwamagana | 13 | 100 |
| East | 67 | 563 |
| Burera | 5 | 58 |
| Gakenke | 11 | 76 |
| Gicumbi | 15 | 91 |
| Musanze | 12 | 117 |
| Rulindo | 14 | 104 |
| North | 57 | 446 |
| Gasabo | 24 | 122 |
| Kicukiro | 25 | 239 |
| Nyarugenge | 12 | 118 |
| Kigali city | 61 | 479 |
| Rwanda | 350 | 2,846 |

Annex I8: TVET level I to 5 students by District in 2018

| District/Province | Male | Female | Total |
| :---: | :---: | :---: | :---: |
| Gisagara | 788 | 516 | 1,304 |
| Huye | 1086 | 862 | 1,948 |
| Kamonyi | 796 | 498 | 1,294 |
| Muhanga | 3621 | 2370 | 5,991 |
| Nyamagabe | 880 | 581 | 1,461 |
| Nyanza | 2318 | 1485 | 3,803 |
| Nyaruguru | 624 | 585 | 1,209 |
| Ruhango | 2571 | 1922 | 4,493 |
| South | 12,684 | 8,819 | 21,503 |
| Karongi | 962 | 1299 | 2,261 |
| Ngororero | 1330 | 973 | 2,303 |
| Nyabihu | 840 | 1005 | 1,845 |
| Nyamasheke | 693 | 878 | 1,571 |
| Rubavu | 2078 | 1487 | 3,565 |
| Rusizi | 1386 | 948 | 2,334 |
| Rutsiro | 1550 | 453 | 2,003 |
| West | 8,839 | 7,043 | 15,882 |
| Bugesera | 1054 | 672 | 1,726 |
| Gatsibo | 1431 | 2013 | 3,444 |
| Kayonza | 1006 | 1060 | 2,066 |
| Kirehe | 624 | 539 | I,163 |
| Ngoma | 1079 | 871 | 1,950 |
| Nyagatare | 811 | 1102 | 1,913 |
| Rwamagana | 1255 | 1660 | 2,915 |
| East | 7,260 | 7,917 | 15,177 |
| Burera | 1126 | 585 | I,711 |
| Gakenke | 880 | 904 | 1,784 |
| Gicumbi | 1172 | 1472 | 2,644 |
| Musanze | 1987 | 1925 | 3,912 |
| Rulindo | 2455 | 1467 | 3,922 |
| North | 7,620 | 6,353 | 13,973 |
| Gasabo | 2237 | 1749 | 3,986 |
| Kicukiro | 3679 | 2301 | 5,980 |
| Nyarugenge | 1266 | 1621 | 2,887 |
| Kigali city | 7,182 | 5,671 | 12,853 |
| Rwanda | 43,585 | 35,803 | 79,388 |

Annex 19: TVET level I to 5 staff by District in 2018

| District/Province | Male | Female | Total |
| :---: | :---: | :---: | :---: |
| Gisagara | 72 | 33 | 105 |
| Huye | 116 | 49 | 165 |
| Kamonyi | 60 | 44 | 104 |
| Muhanga | 221 | 108 | 329 |
| Nyamagabe | 74 | 36 | 110 |
| Nyanza | 224 | 63 | 287 |
| Nyaruguru | 68 | 30 | 98 |
| Ruhango | 234 | 116 | 350 |
| South | 1,069 | 479 | 1,548 |
| Karongi | 106 | 32 | 138 |
| Ngororero | 99 | 47 | 146 |
| Nyabihu | 110 | 31 | 141 |
| Nyamasheke | 81 | 30 | 111 |
| Rubavu | 158 | 70 | 228 |
| Rusizi | 113 | 49 | 162 |
| Rutsiro | 84 | 18 | 102 |
| West | 751 | 277 | 1,028 |
| Bugesera | 90 | 36 | 126 |
| Gatsibo | 130 | 60 | 190 |
| Kayonza | 87 | 39 | 126 |
| Kirehe | 78 | 24 | 102 |
| Ngoma | 94 | 44 | 138 |
| Nyagatare | 65 | 21 | 86 |
| Rwamagana | 150 | 43 | 193 |
| East | 694 | 267 | 961 |
| Burera | 78 | 17 | 95 |
| Gakenke | 99 | 38 | 137 |
| Gicumbi | 107 | 60 | 167 |
| Musanze | 171 | 57 | 228 |
| Rulindo | 162 | 47 | 209 |
| North | 617 | 219 | 836 |
| Gasabo | 197 | 94 | 291 |
| Kicukiro | 240 | 78 | 318 |
| Nyarugenge | 116 | 67 | 183 |
| Kigali city | 553 | 239 | 792 |
| Rwanda | 3,684 | 1,48 I | 5,165 |

Annex 20: Number of tertiary students and campuses per districts in 2017/I8

| District/Provinces | Number of students |  |  | Number of campuses |
| :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | Total |  |
| Gisagara | 352 | 596 | 948 | I |
| Huye | 5,359 | 3,373 | 8,732 | 5 |
| Kamonyi | - | - | - | - |
| Muhanga | 241 | 534 | 775 | I |
| Nyamagabe | 143 | 70 | 213 | 1 |
| Nyanza | 519 | 659 | I,178 | 3 |
| Nyaruguru | - | - | - | - |
| Ruhango | 494 | 677 | 1,171 | 2 |
| South | 7,108 | 5,909 | 13,017 | 13 |
| Karongi | 802 | 517 | 1,319 | 4 |
| Ngororero | - | - | - | - |
| Nyabihu | - | - | - | - |
| Nyamasheke | 472 | 552 | 1,024 | 1 |
| Rubavu | 958 | 976 | 1,934 | 2 |
| Rusizi | 95 | 67 | 162 | I |
| Rutsiro | - | - | - | - |
| West | 2,327 | 2,112 | 4,439 | 8 |
| Bugesera | 19 | 7 | 26 | 1 |
| Gatsibo | - | - | - | - |
| Kayonza | 2,447 | 1,201 | 3,648 | 2 |
| Kirehe | - | - | - | - |
| Ngoma | 1,295 | 912 | 2,207 | 2 |
| Nyagatare | 901 | 831 | 1,732 | 2 |
| Rwamagana | 1,337 | 695 | 2,032 | 3 |
| East | 5,999 | 3,646 | 9,645 | 10 |
| Burera | - | - | - | - |
| Gakenke | 81 | 241 | 322 | 1 |
| Gicumbi | 1,053 | 1,084 | 2,137 | 1 |
| Musanze | 4,545 | 2,531 | 7,076 | 5 |
| Rulindo | 1,198 | 732 | 1,930 | 2 |
| Northern | 6,877 | 4,588 | 11,465 | 9 |
| Gasabo | 12,694 | 10,845 | 23,539 | 11 |
| Kicukiro | 10,476 | 8,234 | 18,710 | 8 |
| Nyarugenge | 5,638 | 2,707 | 8,345 | 9 |
| Kigali city | 28,808 | 21,786 | 50,594 | 28 |
| Total | 51,119 | 38,04I | 89,160 | 68 |

Annex 21: Public and private tertiary enrolment in 2017-2018 by field of education

| Field of Education | Number of students |  |  | Percentage |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | Total | $\begin{gathered} \% \\ \text { Male } \end{gathered}$ | Female |
| Education | 5,513 | 3,425 | 8,938 | 61.7\% | 38.3\% |
| Arts and Humanities | 924 | 609 | I,533 | 60.3\% | 39.7\% |
| Social Sciences, Journalism and Information | 2,861 | 2,140 | 5,001 | 57.2\% | 42.8\% |
| Business, Administration and Law | 13,361 | 16,047 | 29,408 | 45.4\% | 54.6\% |
| Natural Sciences, Mathematics and Statistics | 2,020 | 964 | 2,984 | 67.7\% | 32.3\% |
| Information and Communication Technologies | 4,930 | 2,610 | 7,540 | 65.4\% | 34.6\% |
| Engineering, Manufacturing and Construction | 11,391 | 2,850 | 14,24 I | 80.0\% | 20.0\% |
| Agriculture, Forestry, Fisheries and Veterinary | 1,725 | 851 | 2,576 | 67.0\% | 33.0\% |
| Health and Welfare | 4,442 | 3,809 | 8,251 | 53.8\% | 46.2\% |
| Services | 3,952 | 4,736 | 8,688 | 45.5\% | 54.5\% |
| Total | 51,119 | 38,04I | 89,160 | 57.3\% | 42.7\% |
| Students enrolled in Public institutions |  |  |  |  |  |
| Education | 3,556 | 1,673 | 5,229 | 68.0\% | 32.0\% |
| Arts and humanities | 96 | 34 | 130 | 73.8\% | 26.2\% |
| Social Sciences, journalism and information | 1,712 | 942 | 2,654 | 64.5\% | 35.5\% |
| Business, Administration and Law | 4,922 | 3,264 | 8,186 | 60.1\% | 39.9\% |
| Natural Sciences, Mathematics and Statistics | 912 | 455 | 1,367 | 66.7\% | 33.3\% |
| Information and Communication Technologies | 1,612 | 858 | 2,470 | 65.3\% | 34.7\% |
| Engineering, Manufacturing and construction | 8,294 | 1,815 | 10,109 | 82.0\% | 18.0\% |
| Agriculture, Forestry, fisheries and veterinary | 1,585 | 784 | 2,369 | 66.9\% | 33.1\% |
| Health and Welfare | 3,073 | 1,795 | 4,868 | 63.1\% | 36.9\% |
| Services | 485 | 471 | 956 | 50.7\% | 49.3\% |
| Total | 26,247 | 12,09 I | 38,338 | 68.5\% | 31.5\% |
| Students enrolled in Private institution |  |  |  |  |  |
| Education | 1,957 | 1,752 | 3,709 | 52.8\% | 47.2\% |
| Arts and humanities | 828 | 575 | 1,403 | 59.0\% | 41.0\% |
| Social Sciences, journalism and information | I,149 | 1,198 | 2,347 | 49.0\% | 51.0\% |
| Business, Administration and Law | 8,439 | 12,783 | 21,222 | 39.8\% | 60.2\% |
| Natural Sciences, Mathematics and Statistics | 1,108 | 509 | 1,617 | 68.5\% | 31.5\% |
| Information and Communication Technologies | 3,318 | 1,752 | 5,070 | 65.4\% | 34.6\% |
| Engineering, Manufacturing and construction | 3,097 | 1,035 | 4,132 | 75.0\% | 25.0\% |
| Agriculture, Forestry, fisheries and veterinary | 140 | 67 | 207 | 67.6\% | 32.4\% |
| Health and Welfare | 1,369 | 2,014 | 3,383 | 40.5\% | 59.5\% |
| Services | 3,467 | 4,265 | 7,732 | 44.8\% | 55.2\% |
| Total | 24,872 | 25,950 | 50,822 | 48.9\% | 51.1\% |

Annex 22: Public and private tertiary graduates in 2016/17 by field of education

| Field of Education | Number of graduates |  |  | Percentage |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | Total | \% Male | \% Female |
| Education | 2,82I | 2,189 | 5,010 | 56.3\% | 43.7\% |
| Arts and humanities | 319 | 121 | 440 | 72.5\% | 27.5\% |
| Social Sciences, journalism and information | 719 | 658 | 1,377 | 52.2\% | 47.8\% |
| Business, Administration and Law | 2,915 | 3,651 | 6,566 | 44.4\% | 55.6\% |
| Natural Sciences, Mathematics and Statistics | 674 | 459 | I,133 | 59.5\% | 40.5\% |
| Information and Communication Technologies | 954 | 561 | 1,515 | 63.0\% | 37.0\% |
| Engineering, Manufacturing and construction | 2,267 | 583 | 2,850 | 79.5\% | 20.5\% |
| Agriculture, Forestry, fisheries and veterinary | 598 | 333 | 931 | 64.2\% | 35.8\% |
| Health and Welfare | 930 | 1,256 | 2,186 | 42.5\% | 57.5\% |
| Services | 521 | 571 | 1,092 | 47.7\% | 52.3\% |
| Total | 12,718 | 10,382 | 23,100 | 55.1\% | 44.9\% |
| Students enrolled in Public institutions |  |  |  |  |  |
| Education | 1,365 | 701 | 2,066 | 66.1\% | 33.9\% |
| Arts and humanities | 124 | 42 | 166 | 74.7\% | 25.3\% |
| Social Sciences, journalism and information | 332 | 159 | 491 | 67.6\% | 32.4\% |
| Business, Administration and Law | 1,193 | 787 | 1,980 | 60.3\% | 39.7\% |
| Natural Sciences, Mathematics and Statistics | 413 | 182 | 595 | 69.4\% | 30.6\% |
| Information and Communication Technologies | 464 | 196 | 660 | 70.3\% | 29.7\% |
| Engineering, Manufacturing and construction | 1,909 | 482 | 2,391 | 79.8\% | 20.2\% |
| Agriculture, Forestry, fisheries and veterinary | 505 | 284 | 789 | 64.0\% | 36.0\% |
| Health and Welfare | 755 | 937 | 1,692 | 44.6\% | 55.4\% |
| Services | 185 | 125 | 310 | 59.7\% | 40.3\% |
| Total | 7,245 | 3,895 | II,140 | 65.0\% | 35.0\% |
| Students enrolled in Private institution |  |  |  |  |  |
| Education | 1,456 | 1,488 | 2,944 | 49.5\% | 50.5\% |
| Arts and humanities | 195 | 79 | 274 | 71.2\% | 28.8\% |
| Social Sciences, journalism and information | 387 | 499 | 886 | 43.7\% | 56.3\% |
| Business, Administration and Law | 1,722 | 2,864 | 4,586 | 37.5\% | 62.5\% |
| Natural Sciences, Mathematics and Statistics | 261 | 277 | 538 | 48.5\% | 51.5\% |
| Information and Communication Technologies | 490 | 365 | 855 | 57.3\% | 42.7\% |
| Engineering, Manufacturing and construction | 358 | 101 | 459 | 78.0\% | 22.0\% |
| Agriculture, Forestry, fisheries and veterinary | 93 | 49 | 142 | 65.5\% | 34.5\% |
| Health and Welfare | 175 | 319 | 494 | 35.4\% | 64.6\% |
| Services | 336 | 446 | 782 | 43.0\% | 57.0\% |
| Total | 5,473 | 6,487 | 1 1,960 | 45.8\% | 54.2\% |

Annex 23: Staff in tertiary institutions in the academic year 2017/18

| Status | Academic staff |  | Administrative staff |  | Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | Male | Female | Male | Female | Total |
| Public | 1,665 | 401 | 674 | 391 | 2,339 | 792 | 3,131 |
| Private | 1,659 | 361 | 760 | 424 | 2,419 | 785 | 3,204 |
| Total | 3,324 | 762 | 1,434 | 815 | 4,758 | 1,577 | 6,335 |
| TVET Higher Learning Institutions |  |  |  |  |  |  |  |
| Public | 644 | 85 | 207 | 84 | 851 | 169 | 1,020 |
| Private | 252 | 45 | 69 | 56 | 321 | 101 | 422 |
| Total | 896 | 130 | 276 | 140 | 1,172 | 270 | 1,442 |
| Higher Education Institutions |  |  |  |  |  |  |  |
| Public | I,02I | 316 | 467 | 307 | 1,488 | 623 | 2,111 |
| Private | 1,407 | 316 | 691 | 368 | 2,098 | 684 | 2,782 |
| Total | 2,428 | 632 | I, I58 | 675 | 3,586 | 1,307 | 4,893 |

Annex 24: Adult literacy centres by District from 2016 to 2018

| District/Province | 2016 | 2017 | 2018 |
| :---: | :---: | :---: | :---: |
| Gisagara | 72 | 86 | 77 |
| Huye | 96 | 106 | 99 |
| Kamonyi | 136 | 162 | 106 |
| Muhanga | 132 | 146 | 139 |
| Nyamagabe | 267 | 258 | 248 |
| Nyanza | 111 | 103 | 110 |
| Nyaruguru | 99 | 92 | 93 |
| Ruhango | 121 | 123 | 98 |
| South | 1,034 | 1,076 | 970 |
| Karongi | 184 | 292 | 270 |
| Ngororero | 169 | 179 | 183 |
| Nyabihu | 124 | 137 | 140 |
| Nyamasheke | 292 | 308 | 305 |
| Rubavu | 189 | 217 | 214 |
| Rusizi | 187 | 192 | 163 |
| Rutsiro | 196 | 245 | 259 |
| West | 1,341 | 1,570 | 1,534 |
| Bugesera | 193 | 185 | 184 |
| Gatsibo | 307 | 337 | 329 |
| Kayonza | 44 | 86 | 86 |
| Kirehe | 72 | 73 | 77 |
| Ngoma | 110 | 122 | 103 |
| Nyagatare | 211 | 208 | 181 |
| Rwamagana | 182 | 185 | 182 |
| East | 1,119 | 1,196 | 1,142 |
| Burera | 212 | 214 | 226 |
| Gakenke | 263 | 311 | 323 |
| Gicumbi | 244 | 313 | 315 |
| Musanze | 127 | 137 | 143 |
| Rulindo | 154 | 171 | 176 |
| North | 1,000 | 1,146 | 1,183 |
| Gasabo | 76 | 78 | 69 |
| Kicukiro | 33 | 33 | 42 |
| Nyarugenge | 51 | 61 | 51 |
| Kigali city | 160 | 172 | 162 |
| Rwanda | 4,654 | 5,160 | 4,991 |

Annex 25: Adult literacy learners by District in 2017 and 2018

| District/Province | 2017 |  |  | 2018 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | Total | Male | Female | Total |
| Gisagara | 2,549 | 3,590 | 6,139 | I,34I | 1,955 | 3,296 |
| Huye | 1,277 | 2,234 | 3,511 | 780 | 2,237 | 3,017 |
| Kamonyi | 1,661 | 2,287 | 3,948 | 1,213 | 2,200 | 3,413 |
| Muhanga | 1,813 | 2,193 | 4,006 | 1,483 | 2,488 | 3,971 |
| Nyamagabe | 1,733 | 2,934 | 4,667 | 1,893 | 3,365 | 5,258 |
| Nyanza | 2,361 | 3,784 | 6,145 | 1,934 | 2,920 | 4,854 |
| Nyaruguru | 699 | 1,329 | 2,028 | 738 | 1,810 | 2,548 |
| Ruhango | 2,099 | 3,085 | 5,184 | 992 | I,579 | 2,571 |
| South | 14,192 | 21,436 | 35,628 | 10,374 | 18,554 | 28,928 |
| Karongi | 2,224 | 3,697 | 5,921 | 2,107 | 3,590 | 5,697 |
| Ngororero | 3,052 | 4,188 | 7,240 | 2,208 | 3,230 | 5,438 |
| Nyabihu | 1,222 | 3,323 | 4,545 | 1,538 | 3,561 | 5,099 |
| Nyamasheke | 2,567 | 3,742 | 6,309 | 2,269 | 2,956 | 5,225 |
| Rubavu | 3,417 | 7,051 | 10,468 | 2,565 | 5,109 | 7,674 |
| Rusizi | 1,105 | 1,511 | 2,616 | 1,022 | 1,336 | 2,358 |
| Rutsiro | 3,664 | 5,118 | 8,782 | 3,387 | 4,94I | 8,328 |
| West | 17,25 I | 28,630 | 45,881 | 15,096 | 24,723 | 39,819 |
| Bugesera | 1,125 | 2,064 | 3,189 | 888 | 1,505 | 2,393 |
| Gatsibo | 7,515 | 8,790 | 16,305 | 6,400 | 8,537 | 14,937 |
| Kayonza | 1,099 | 1,511 | 2,610 | 1,143 | 1,795 | 2,938 |
| Kirehe | 456 | 712 | I,168 | 610 | 882 | 1,492 |
| Ngoma | 1,430 | 1,749 | 3,179 | 1,119 | 1,694 | 2,813 |
| Nyagatare | 2,202 | 3,324 | 5,526 | 1,639 | 2,417 | 4,056 |
| Rwamagana | 1,853 | 2,227 | 4,080 | 1,866 | 2,337 | 4,203 |
| East | 15,680 | 20,377 | 36,057 | 13,665 | 19,167 | 32,832 |
| Burera | 2,701 | 3,480 | 6,181 | 2,508 | 3,418 | 5,926 |
| Gakenke | 1,910 | 2,767 | 4,677 | 2,206 | 2,94I | 5,147 |
| Gicumbi | 2,198 | 3,479 | 5,677 | 3,105 | 4,417 | 7,522 |
| Musanze | 1,007 | 2,703 | 3,710 | 1,1] I | 2,804 | 3,915 |
| Rulindo | I,126 | 1,602 | 2,728 | I,127 | 1,719 | 2,846 |
| North | 8,942 | 14,03 I | 22,973 | 10,057 | 15,299 | 25,356 |
| Gasabo | 1,603 | I,947 | 3,550 | 1,132 | 1,737 | 2,869 |
| Kicukiro | 280 | 356 | 636 | 227 | 596 | 823 |
| Nyarugenge | 3,608 | 3,682 | 7,290 | 669 | 1,069 | 1,738 |
| Kigali city | 5,491 | 5,985 | 11,476 | 2,028 | 3,402 | 5,430 |
| Rwanda | 61,556 | 90,459 | 152,015 | 51,220 | 81,145 | 132,365 |

Annex 26: Adult literacy instructors by District and Province in 2017 and 2018

| District/Province | 2017 |  |  | 2018 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | Total | Male | Female | Total |
| Gisagara | 69 | 49 | 118 | 61 | 38 | 99 |
| Huye | 58 | 84 | 142 | 52 | 75 | 127 |
| Kamonyi | 103 | 99 | 202 | 57 | 59 | 116 |
| Muhanga | 90 | 93 | 183 | 78 | 96 | 174 |
| Nyamagabe | 213 | 154 | 367 | 199 | 150 | 349 |
| Nyanza | 74 | 50 | 124 | 72 | 61 | 133 |
| Nyaruguru | 76 | 52 | 128 | 66 | 62 | 128 |
| Ruhango | 70 | 89 | 159 | 65 | 68 | 133 |
| South | 753 | 670 | 1,423 | 650 | 609 | 1259 |
| Karongi | 268 | 218 | 486 | 252 | 181 | 433 |
| Ngororero | 162 | 71 | 233 | 151 | 73 | 224 |
| Nyabihu | 94 | 44 | 138 | 91 | 49 | 140 |
| Nyamasheke | 297 | 112 | 409 | 296 | 136 | 432 |
| Rubavu | 159 | 82 | 241 | 154 | 60 | 214 |
| Rusizi | 231 | 51 | 282 | 200 | 50 | 250 |
| Rutsiro | 189 | 56 | 245 | 191 | 69 | 260 |
| West | 1,400 | 634 | 2,034 | 1,335 | 618 | 1,953 |
| Bugesera | 121 | 72 | 193 | 116 | 74 | 190 |
| Gatsibo | 226 | 111 | 337 | 215 | 114 | 329 |
| Kayonza | 56 | 30 | 86 | 68 | 18 | 86 |
| Kirehe | 56 | 19 | 75 | 56 | 23 | 79 |
| Ngoma | 86 | 37 | 123 | 77 | 47 | 124 |
| Nyagatare | 136 | 78 | 214 | 110 | 120 | 230 |
| Rwamagana | 123 | 72 | 195 | 111 | 75 | 186 |
| East | 804 | 419 | 1,223 | 753 | 471 | 1,224 |
| Burera | 197 | 39 | 236 | 199 | 44 | 243 |
| Gakenke | 256 | 114 | 370 | 256 | 119 | 375 |
| Gicumbi | 282 | 132 | 414 | 298 | 114 | 412 |
| Musanze | 102 | 58 | 160 | 110 | 71 | 181 |
| Rulindo | 98 | 105 | 203 | 109 | 98 | 207 |
| North | 935 | 448 | 1,383 | 972 | 446 | 1,418 |
| Gasabo | 53 | 55 | 108 | 51 | 39 | 90 |
| Kicukiro | 28 | 19 | 47 | 30 | 28 | 58 |
| Nyarugenge | 32 | 37 | 69 | 31 | 39 | 70 |
| Kigali city | 113 | 111 | 224 | 112 | 106 | 218 |
| Rwanda | 4,005 | 2,282 | 6,287 | 3,822 | 2,250 | 6,072 |

Annex 27: ISCED Mapping for Rwanda
\(\left.$$
\begin{array}{|l|l|l|}\hline \begin{array}{l}\text { National } \\
\text { program }\end{array} & \text { ISCED level } & \text { ISCED Description } \\
\hline \text { Pre-nursery } & \begin{array}{l}\text { 0I - Early childhood educational } \\
\text { development }\end{array} & \begin{array}{l}\text { Education designed to support early development in preparation } \\
\text { for participation in school and society. }\end{array} \\
\hline \text { Nursery } & 02 \text { - Pre-primary education } & \text { I - Primary education }\end{array}
$$ \begin{array}{l}Systematic instruction in fundamental knowledge, skills and <br>

competencies. Basic level of complexity.\end{array}\right]\)| First stage of secondary education building on primary education. |
| :--- |
| Primary |

This document contains a comprehensive set of statistical information for all education levels: early childhood education, primary, secondary, TVET, tertiary and adult literacy. It provides key education figures and indicators for school infrastructure, students, staff, ICT in education, books, sources of energy, water, sanitation, school feeding and special needs in education. Data presented in this publication is disaggregated by level of education, school's status, gender and disaggregate data at district level is available in the annexes.

## Institutions affiliate to the Ministry of Education:

> Rwanda Education Board (REB)
> Higher Education Council (HEC)
> Workforce Development Authority (WDA)
> Rwanda National Commission for UNESCO (CNRU)
> University of Rwanda (UR)
> Rwanda Polytechnic (RP)
Contact:
Ministry of Education
P.O Box 622 Kigali-Rwanda
Website: www. mineduc.gov.rw
Email: info@mineduc.gov.rw
Twitter: @mineducl
Facebook: mineduc@mineduc.gov.rw
Youtube: mineducrwanda@youtube


[^0]:    ${ }^{1} \mathrm{http}: / / u i s . u n e s c o . o r g / s i t e s / d e f a u l t / f i l e s / d o c u m e n t s / e d u c a t i o n-i n d i c a t o r s-t e c h n i c a l-g u i d e l i n e s-e n \_0 . p d f ~$
    ${ }^{2}$ http://uis.unesco.org/sites/default/files/documents/metadata-global-thematic-indicators-sdg4-education2030-2017-en_1.pdf

[^1]:    ${ }^{3}$ Social and Religious Studies
    ${ }^{4}$ SET: Science and Elementary Technology

[^2]:    ${ }^{5}$ This table do not include students in TVET, details of TVET student by level are given in table 5.7

[^3]:    ${ }^{6}$ This table do not include SwD in TVET, details on SwD in TVET by level is provided in Table 5.13

